List of FIND.BAS

```
REM ... FIND A KEY WORD IN SIGM.DIR
110
      DIM A$(10,10)
-120
      PRINT CHR$(27);"LZ"
      PRINT "This routine will scan SIGM.DIR and print any lines which"
130
140
      PRINT "contain a given key word.": PRINT
      PRINT "UPPER & lower case characters are considered different."
150
160
      PRINT "Enter up to 10 keywords of up to 10 letters each to match ";
170
      PRINT "in this pass."
180
      PRINT "For fastest processing enter most likely match first."
190
      PRINT
      FOR I%=1 TO 10
200
      PRINT "Keyword number"; IX; ":";
210
220
      LINE INPUT A$(I%,1)
230
      IF LEN(A$(I%,1))=0 THEN 250
240
      NEXT I%
250
      IF IX<>11 THEN IX=IX-1
      PRINT: INPUT "Press return when ready", HOLDING$
260
270
      COUNTY=0
280
      PRINT: PRINT "
                         Searching SIG/M 1-256 for :"
290
      FOR J%=1 TO I%
300
      PRINT TAB(35); A$(J%,1)
310
      NEXT J%
320
      PRINT
      PRINT "Disk# Filename.ext Size CRC
330
                                                   Comments"
      PRINT" -----
340
350
      PRINT
360
      OPEN "I",1,"SIGM.DIR"
370
      LINE INPUT #1,B$
380
     IF EOF(1) THEN 470
390
      FOR J%=1 TO I%
400
      N/=INSTR(1,B*,A*(J/,1))
410
      IF NX=0 THEN 450
420
      COUNTY=COUNTY+1
430
      PRINT B$
440
      GOTO 370
450
      NEXT JX
460
      GOTO 370
470
      PRINT: PRINT CHR$(7); "End of SIGM.DIR"
480
      PRINT COUNTX;" lines contained at least one of the Keywords."
490
      CLOSE 1
500
      END
```

```
Disk#
         Filename.ext
                         Size
                                CRC
                                         Comments
007.09
         PURGE
                 .ASC
                          4K
                                       Remove Killed msg's from RIBBs files -MBASIC
                               XX XX
007.10
                                       Remote Iselin bulletin board system - MBASIC
         RIBBS
                 .ASC
                         20K
                               XX XX
007.16
         MENU
                 .ASM
                          9K
                                       Creates menu of all .COM and .BAS files
                               xx xx
                                       Interstellar commerce game - Microsoft BASIC
010.01
         LANES
                 .BAS
                          óК
                               xx xx
010.02
         JOURNAL .BAS
                         17K
                               xx xx
                                       Computer journal resource library
                                      Microsoft BASIC game
010.04
         BLACKBOX.BAS
                          ЗК
                               XX XX
                 .BAS
010.05
         BOGGLE
                          1 K
                                      Microsoft BASIC game
                               XX XX
                 .H19
                                       Backgammon for H19 terminal -Microsoft BASIC
010.06
         GAMMON
                         11K
                               XX XX
                 .H19
010.07
         NIM1
                          8K
                               XX XX
                                      Microsoft BASIC game for Heath terminal
010.08
         OTHELLO .H19
                          5K
                               xx xx
                                      Microsoft BASIC game for Heath terminal
010.09
         STARWAR2.H19
                         12K
                                      Microsoft BASIC game for Heath terminal
                               XX XX
010.13
        NSCPM48 .ASM
                         22K
                               XX XX
                                       Run North Star BASIC under CP/M
        NSCPM48 .DOC
010.14
                          8K
                                       Run North Star BASIC under CP/M
                               XX XX
010.15
         RETURN48.COM
                          1 K
                                       Run North Star BASIC under CP/M
                               xx xx
013.20
         LOOPBAK1.BAS
                          2K
                               XX XX
                                       PMMI loop back test
                 .HLP
014.08
        MBASIC
                         21K
                                       HELP system - Microsoft BASIC
                               xx xx
                 .HLP
014.09
         CBASIC
                         14K
                               XX XX
                                       HELP system - CBASIC
014.10
         EBASIC
                 HLP
                         12K
                                       HELP system - BASIC-E
                               XX XX
014.11
         CBASIC2 .HLP
                         22K
                                       HELP system - CBASIC-2
                               XX XX
026.04
         EL-E
                 .BAS
                         18K
                               xx xx
                                       Electrical engineering/design system
026.07
                 .BAS
         QSO
                          1 K
                                       Ham notebook - CBASIC
                               XX XX
026.08
         QSOEDIT .BAS
                          4K
                                       EDIT for ham notebook
                               XX XX
                                      MERGE for ham notebook
026.09
         QSOMERGE.BAS
                          2K
                               xx xx
26.10
         QSOFIND .BAS
                          1 K
                               XX XX
                                       FIND for ham notebook
326.11
         QSOSCAN .BAS
                          4K
                               xx xx
                                       SCAN for ham notebook
026.12
         QSOLIST
                 .BAS
                          1 K
                                       LIST for ham notebook -
                               xx xx
                 .BAS
026.24
        XEDIT
                          ЗΚ
                               xx xx
                                       Simple MAIL label system - data entry EDITor
026.26
        XMERGE
                 .BAS
                                       File MERGE - MAIL label system
                          2K
                               XX XX
                 .BAS
026.28
        XSCAN
                          2K
                                       Delete items from master MAIL list
                               XX XX
        XEXTRACT.BAS
026.30
                          2K
                                       EXTRACT items from master MAIL list
                               XX XX
                 .BAS
026.32
        XLIST
                          1 K
                                       LIST items from master MAIL list
                               XX XX
026.34
        XLABELS .BAS
                          2K
                               xx xx
                                      MAIL LABEL print
026.36
        XFIND
                 .BAS
                          1 K
                                       Query of master MAIL list
                               xx xx
026.38
        XTEL
                 .BAS
                          1 K
                                       Query by TELephone number
                               XX XX
031.02
         STAR
                          5K
                 .BAS
                               xx xx
                                       Reads and prints data from STAR catalog
         STARVAL .BAS
031.03
                          4K
                               xx xx
                                       STAR database validation routine
040.03
         VMAP
                 .BAS
                          бK
                                       MBASIC variable MAPper
                               XX XX
040.04
         VMAP
                 .DOC
                          2K
                               XX XX
                                       Documentation for MBASIC variable MAPper
040.05
         VMAP-SUB.DOC
                                       MBASIC variable MAPper subroutine
                          2K
                               XX XX
040.08
         CHARFREQ.BAS
                          2K
                                       CHARacter FREQuency analysis
                               XX XX
040.09
        XFERTIME.BAS
                          2K
                                       File transfer TIME program for RCPM
                               xx xx
042.05
        MTX
                                       File access - Pertec MTX BASIC and CP/M
                 .ASM
                         36K
                               XX XX
042.06
         MTX
                 . COM
                          5K
                                       File access - Pertec MTX BASIC and CP/M
                               XX XX
        MTX2000 .ASM
042.07
                         36K
                                       File access - double dens. MTX BASIC & CP/M
                               XX XX
042.08
         MTX2000 .COM
                          5K
                                       File access - double dens. MTX BASIC & CP/M
                               XX XX
052.04
         CATALIST.BAS
                          8K
                                       LISTs contents of CPMUG and SIG/M volumes
                               xx xx
052.06
         SCATPAD .BAS
                          2K
                                       PADs spaces for fixed length records
                               XX XX
052.10
         TestProt.BAS
                          1 K
                                       Sample 'P'rotected file
                               XX XX
052.11
         UN
                 . COM
                          5K
                                       un'P'rotect MBASIC programs
                               XX XX
59.03
         CORE1
                         13K
                                       CORE image that results from compiling PBASE
                               XX XX
059.05
         PBASE
                         17K
                               XX XX
                                       PISTOL source to educate PISTOL.COM
061.29
         STRIP
                 .BAS
                          3K
                                       Utility to make DEDIT smaller
                               XX XX
070.01
         A-NEW
                 .NBP
                          3K
                                       NorthStar BASIC programs
                               XX XX
070.02
         BOMBER
                 .NBP
                          ЗК
                                       NorthStar BASIC game
                               xx xx
070.03
         BOXING
                 .NBP
                          3K
                                       NorthStar BASIC game
                               XX XX
070.04
         DECISION.NBP
                                       NorthStar BASIC game
                          5K
                               XX XX
```

NorthStar BASIC game

DEPTHCHG.NBP

2K

XX XX

070.05

```
.NBP
                          4K
070.06
         DRUNK
                                xx xx
                                       NorthStar BASIC game
                          7K
                                       NorthStar BASIC game
070.07
         ELIZA
                  .NBP
                                XX XX
                          7K
         ENTERPRI .NBP
                                       NorthStar BASIC game
070.08
                                XX XX
                          4K
                                       NorthStar BASIC program
070.09
         GROWTH
                  .NBP
                                XX XX
                                       NorthStar BASIC program
070.10
         HDSUB
                  .NBP
                          1 K
                                XX XX
                                       NorthStar BASIC program
070.11
         HEXDEC
                  .NBP
                          2K
                                xx xx
                          1 K
070.12
         INDEX
                  .NBP
                                XX XX
                                       NorthStar BASIC program
         INTEREST.NBP
                          2K
                                       NorthStar BASIC program
70.13
                                xx xx
070.14
         LOANPAY1.NBP
                          3K
                                       NorthStar BASIC program
                                XX XX
                          4K
                                       NorthStar BASIC program
070.15
         MICKEY
                  .NBP
                                xx xx
                                       NorthStar BASIC program
                          2K
070.16
         NAVAID1 .NBP
                                XX XX
                                       NorthStar BASIC read me-for-help file
070.17
         NBP
                  .HLP
                          2K
                                XX XX
                                       NorthStar BASIC program
070.18
         PEANUTS
                  .NBP
                          4K
                                xx xx
                                       NorthStar BASIC program
070.19
         PLOT
                  .NBP
                          1 K
                                XX XX
                                       NorthStar BASIC program
070.20
                  .NBP
                          1 K
         PRIME
                                xx xx
                          7K
070.21
         QUBIC
                  .NBP
                                       NorthStar BASIC game
                                XX XX
                         10K
                                       NorthStar BASIC program
070.22
         RECURSIV.NBP
                                xx xx
070.23
         STARLANE . NBP
                         13K
                                XX XX
                                       NorthStar BASIC game
070.24
         STARTRE$.NBP
                         12K
                                xx xx
                                       NorthStar BASIC game
         STORY
                          2K
                                       NorthStar BASIC program
070.25
                  .NBP
                                XX XX
                                       NorthStar BASIC program
                          2K
070.26
         TIME
                  .NBP
                                XX XX
         TIMEPRNT.NBP
                          1 K
                                       NorthStar BASIC program
070.27
                                XX XX
                          8K
                                       NorthStar BASIC game
070.28
         UFO
                  .NBP
                               XX XX
                          4K
                                       Pass CP/M command line to BASCOM
073.01
         CMD
                  .ASM
                                xx xx
073.02
         COMMAND
                  .BAS
                          1 K
                               XX XX
                                       Test program for CMD.ASM
073.09
         DLABEL
                  .BAS
                          4K
                                xx xx
                                       Print disk LABELs
                                       TEST program for MAP
073.15
         MAPTEST
                 .BAS
                          1 K
                               XX XX
074.05
         CLOCK-CB.BAS
                          8K
                                       CB-80 Godbout SS1 CLOCK
                                XX XX
074.06
         CLOCK-M .BAS
                          7K
                               xx xx
                                       MBASIC Godbout CLOCK
074.15
         DIARY
                  .BAS
                          8K
                                XX XX
                                       CBASIC diary program
074.19
         FPROD
                  .BAS
                          8K
                               XX XX
                                       Frequency PRODucts for RF engineers
074.20
                          8K
                                       Frequency PRODucts for RF engineers
         FPROD1
                  .BAS
                                xx xx
274.23
         KEYPAD
                  .BAS
                          1 K
                                       Programs KEYpad on ADM-31, allows strings
                               xx xx
74.34
         UCASE
                  .BAS
                          1 K
                                XX XX
                                       MBASIC Upper CASE conversion
075.04
         FFT
                  .BAS
                          4K
                                       Fourier transform
                               XX XX
075.19
         PULSE12 .BAS
                          1 K
                               XX XX
                                       Use with FFT.BAS
075.20
         PULSE25
                 BAS
                          1 K
                               xx xx
                                       Use with FFT.BAS
075.22
         SEARCH
                  .BAS
                          3K
                                       Magazine library SEARCH
                                XX XX
         SINE1010.BAS
075.24
                          1 K
                                       Use with FFT.BAS
                               xx xx
076.32
                          3K
         SDIR
                  .BAS
                                       MBASIC DIR sort
                                XX XX
078.01
         BENCHMK .BAS
                          2K
                               xx xx
                                       Benchmark test in BASIC
078.06
         BIGTIME .BAS
                         15K
                                XX XX
                                       Adds video controls
078.07
         CALENDAR . BAS
                          2K
                               xx xx
                                       Calendar generator
078.21
         FPRIME
                  .BAS
                          1 K
                               XX XX
                                       MBASIC prime number benchmark
078.27
         MXREF
                  .BAS
                          6K
                                       MBASIC cross REF utility
                               XX XX
078.30
         SURVIVAL.BAS
                         16K
                                       CBASIC2 SURVIVAL game
                               XX XX
078.31
         SURVIVAL.OBJ
                         19K
                               XX XX
                                       CBASIC2 game
083.11
         TTHELP0 .DAT
                          2K
                               XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.12
         TTHELP1 .DAT
                          2K
                               XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.13
         TTHELP2 .DAT
                          1 K
                                       TouchTyping Tutor in MBASIC for ADM-31
                               xx xx
083.14
         TTHELP3 .DAT
                          1 K
                                       TouchTyping Tutor in MBASIC for ADM-31
                               XX XX
083.15
         TTHELP4 .DAT
                          1K
                                       TouchTyping Tutor in MBASIC for ADM-31
                               XX XX
083.16
         TTHELP5
                  . DAT
                          1 K
                               XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.17
         TTKEYBD
                  . DAT
                          1 K
                                       TouchTyping Tutor in MBASIC for ADM-31
                                XX XX
083.18
         TTYPE
                  .BAS
                         22K
                               XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.19
         TTYPE
                  .OBJ
                         22K
                                       TouchTyping Tutor in MBASIC for ADM-31
                                XX XX
083.20
         TTYPE
                  .DOC
                         19K
                               xx xx
                                       TouchTyping Tutor in MBASIC for ADM-31
083.21
         TTYPE
                  .WST
                         20K
                                       TouchTyping Tutor in MBASIC for ADM-31
                                XX XX
83.22
         TTYPEXA
                  . DAT
                          1 K
                               XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.23
         TTYPEXB
                 . DAT
                          2K
                                       TouchTyping Tutor in MBASIC for ADM-31
                                XX XX
083.24
         TTYPEXC
                 DAT
                          3K
                                       TouchTyping Tutor in MBASIC for ADM-31
                               XX XX
083.25
         TTYPEXD
                          2K
                  .DAT
                                       TouchTyping Tutor in MBASIC for ADM-31
                                XX XX
083.26
         TTYPEXE
                 . DAT
                          2K
                                XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.27
         TTYPEXF .DAT
                          2K
                                XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
         TTYPEXG .DAT
083.28
                          2K
                                XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.29
         TTYPEXH .DAT
                          3K
                                XX XX
                                       TouchTyping Tutor in MBASIC for 604-31
```

```
083.30
         TTYPEXI .DAT
                          ЗК
                                XX XX
                                       TouchTyping Tutor in MBASIC for ADM-31
083.31
         TTYPEXJ .DAT
                          3K
                                xx xx
                                       TouchTyping Tutor in MBASIC for ADM-31
084.05
         ENTRBBS .BAS
                         24K
                                XX XX
084.06
         EXITRBBS.BAS
                          7K
                                XX XX
084.11
         MINIRBBS.BAS
                         30K
                                XX XX
084.12
         RBBSUTIL.BAS
                         13K
                                XX XX
087.01
                                       CBASIC version of model
         THEFED
                 .TXT
                          3K
                                xx xx
92.12
         RBSUTL31.BAS
                         10K
                                XX XX
                  .DBF
110.02
         ACG
                          5K
                                       demonstration dBASEII modular data
                                XX XX
110.03
         ADD
                  .ACG
                          3K
                                       base. To initiate, type "dBASE main"
                                XX XX
110.31
         DBDIR
                  .DOC
                          1 K
                                xx xx
                                       Example of ASM file in dBASE for
                                       Prints dBASE fields and
110.33
         FORM
                  . CMD
                          2K
                                XX XX
110.37
         POKE1
                  . CMD
                          4K
                                       Poke memory from dBASE
                                XX XX
110.39
         SHOWMEM .CMD
                          5K
                                XX XX
                                        Displays memory from dBASE
112.10
         RBSCLOCK.BAS
                          ЗК
                                XX XX
113.10
         PCKEXE
                  .BAS
                          2K
                                XX XX
                  .BAS
113.12
         PCKGET
                          2K
                                XX XX
114.17
         PBASE2
                         23K
                                XX XX
                          9К
         TARGET
                  .BAS
116.16
                                       Microsoft Basic game
                                XX XX
117.01
         CATXRF11.BAS
                          4K
                                XX XX
                                       Update for master catalog system prints
123.04
         INKEY
                  .REL
                          1 K
                                       Inkey improvement for BASCOM
                                XX XX
129.
         ABSTRACT.129
                                       dBASEII ORDER AND INVENTORY PROGRAM
                                                    dBASEII (TM) order
129.01
         DB2SIG/M.LBR
                        180K
                                XX XX
                                       A complete
                                       FASTBASE (TM) search program which
130.21
         BYECMD
                  .BAS
                          4K
                                XX XX
                                       exit program
130.23
         CNFG1
                  .BAS
                          8K
                                XX XX
                                       sysop's system configuration program 2
                  .BAS
130.24
         COMGR
                         10K
                                xx xx
                                       sysop's comments manager program
130.25
         COMPILE .SUB
                          1 K
                                        submit file for compiling a .BAS file
                                XX XX
130.26
         CONFIG
                  .BAS
                         21K
                                xx xx
                                        sysop's system configuration program
130.28
         CONVRBB .BAS
                         18K
                                XX XX
                                        program to convert RBBS files
130.31
         FINISH
                  .BAS
                          бK
                                XX XX
                                       exit program
130.35
         MFIL
                  .BAS
                          2K
                                XX XX
                                       program to make necessary data files
 130.36
         POSYS
                  .BAS
                         18K
                                XX XX
                                       sysop's general utility
 30.40
         SIGNON
                  .BAS
                         16K
                                       main program
                                XX XX
130.46
         TOS
                  .BAS
                          ЗК
                                XX XX
                                        time on system program
         USRMAINT.BAS
130.48
                          9K
                                        sysop's user file maintenance program
                                XX XX
                  .BAS
132.21
         ROTATE
                          3K
                                        letter game
                                xx xx
133.03
         BASICOPS.PAS
                         23K
                                        extended precision floating point
                                XX XX
135.18
                  .BAS
         PCAT
                          бK
                                XX XX
                                       Hardcopy catalog in master catalog system
135.19
         POKER
                  .BAS
                         12K
                                XX XX
                                       Beats you every time
         LIFSCORE.BAS
136.10
                         17K
                                       How long to go
                                XX XX
139.06
         UN-PROT .BAS
                          2K
                                XX XX
                                       Fix for Apple for UN.COM
142.01
         ALMAZAR .BAS
                          2K
                                xx xx
                                       Adventure game from Micro-80
142.05
         SFALDES .BAS
                          7K
                                xx xx
                                       /
142.06
         SFAMAIN .BAS
                         15K
                                       /
                                XX XX
142.08
         SFAMOVE .BAS
                                       /
                          2K
                                xx xx
142.10
         SFAOBDES.BAS
                          2K
                                xx xx
         SFARESP .BAS
142.12
                          5K
                                XX XX
142.14
         SFAVOC
                  .BAS
                          1 K
                                XX XX
142.15
         AUSOPOLY.BAS
                         28K
                                       English/Australian of CPMUG game
                                XX XX
142.16
         BACARRAT.BAS
                          4K
                                       Osborne MBASIC game
                                XX XX
142.18
         BLAKJACK.BAS
                         12K
                                        Osborne MBASIC game
                                XX XX
142.21
         GOLDMINE.BAS
                          8K
                                       MBASIC game
                                XX XX
142.22
         KPR02-SW.BAS
                         10K
                                        Spacewar game for Kaypro 2, MBASIC
                                XX XX
142.26
         OZDOT
                  BAS
                          8K
                                XX XX
                                       Osborne version of DOTS
142.30
         SPACEWAR . BAS
                                        Osborne MBASIC game
                         11K
                                XX XX
142.31
         YKW1
                  .BAS
                          2K
                                XX XX
                                        "My other computer is an IBM" for Osborne
142.32
         YKW2
                                        "My other computer is an IBM" for ADM-31
                  .BAS
                           2K
                                XX XX
43.01
         ATTEN
                  .BAS
                                        Electronic attenuator design utility
                          3K
                                XX XX
 143.02
         DEPREC
                  .BAS
                           3K
                                        Depreciation schedult
                                XX XX
         CALENDR5.BAS
147.03
                                        Calculate times,
                           ?K
                                XX XX
147.26
         RSJ
                  .BAS
                           4K
                                        Series of time and date programs for
                                XX XX
                                                       Programs and Information
155.
                                        dBASEII (TM)
         OFFBASE . CMD
155.24
                           2K
                                        Atlanta Data Base Users
                                XX XX
155.36
         MAIN
                  . INV
                           4K
                                        dBASEII version 2.4 and
                                XX XX
 155.40
         DBOX
                  .ART
                           4K
                                        Dual Data Bases and dBASFI
                                XX XX
```

```
155.41
          VALDATE .TST
                           ЗК
                                XX XX
                                        dBASE date validation program
 163.01
          BIBBLD
                   .BAS
                           бK
                                XX XX
                                        Bibliographic search database
 163.02
          BIBLIO
                   .BAS
                           ЗК
                                xx xx
                                        which tells the degree to which
          BIBSR2
                           7K
                                        various articles meet your re-
 163.03
                   .BAS
                                XX XX
                                        quirements. See BYTE, March 1983
 163.04
          BIBSRCH .BAS
                           5К
                                XX XX
 163.05
          CMPRBIB .BAS
                           2K
                                XX XX
                                        /
 163.06
          PARMS
                   .BAS
                           4K
                                XX XX
                                        1
 63.07
                           бK
          VOCBLD
                   .BAS
                                XX XX
          VOCLST
                           2K
 163.08
                   .BAS
                                xx xx
                                        Test MEMTEST function in CBASIC
                           1 K
          CBAS
                   .TST
 163.09
                                XX XX
          CBASTEST.ASM
 163.10
                           1 K
                                XX XX
 163.11
          TEST
                   .BAS
                           1 K
                                XX XX
          CREATE
                   .BAS
                           8K
                                        Creates CBASIC data file
 163.16
                                XX XX
 163.17
          DIR
                   .BAS
                          11K
                                xx xx
                                        Call directory in CBASIC
 163.18
          DIRECTIO.BAS
                           1 K
                                XX XX
                                        Direct console I/O
                                        Day of Week
                           1 K
 163.19
          DOM
                   .BAS
                                xx xx
                                        Gives track and sector info
          FINDCTL .BAS
                           1 K
 163.20
                                xx xx
                           5К
 163.21
          GNMENU
                  .BAS
                                XX XX
                                        Skeleton database for use with
 163.24
          GNREPORT.BAS
                           4K
                                xx xx
 163.27
          GNSCREEN.BAS
                           5K
                                XX XX
                           1K
 163.32
          GRABCOM .BAS
                                        Demo of GET command in CBASIC
                                XX XX
 163.34
          NADMAIL .BAS
                           4K
                                        with mailing labels
                                xx xx
                           8K
 163.35
          NADMENU .BAS
                                xx xx
 163.36
          NADREPT .BAS
                           5К
                                        /
                                XX XX
 163.37
         NADSCRN .BAS
                           6K
                                xx xx
 163.38
          POKEHI
                           1 K
                   .BAS
                                XX XX
                                        Deprotects MBASIC programs
 163.39
         PRBLM001.TXT
                           2K
                                        Common statement CBASIC bug
                                XX XX
 163.41
          SLEUTH
                   .BAS
                           5K
                                XX XX
                                        XREF program
          MXPLOT
                          14K
                                75 3A
 181.14
                   .BAS
                                        Plotter for MX-80
 182.08
          TAG-CPM .LBR
                          14K
                                7E 6B
                                        Modem RR traffic system, MSBASIC
 184.14
          Z3BASE1 .LQB
                           6K
                                1A FC
 184.15
          Z3BASE2 .LQB
                           бK
                                0B 15
                                        turnd hex file into basic data statements
  93.04
          HEX2DATA.BAS
                           ЗК
                                EF 71
 94.06
          FILLS
                   .BAS
                           1 K
                                9D A2
                                        MBASIC demo of stipple patterns
 194.10
          GRAPH
                   .BAS
                           9К
                                B5 4F
                                        MBASIC plot package
 194.11
          HANDPLOT.BAS
                          22K
                                93 B2
                                        Demonstration program
 194.12
          TEST
                   .BAS
                                D6 EF
                                        MBASIC example program
                           2K
 194.14
          UPLOAD
                   .BAS
                          10K
                                DØ 93
                                        MBASIC demo-stipple pattern redefinition
 198.09
          INIT
                   .ACC
                           4K
                                A5 15
                                         Required dBASEII (TM) version 2.4. To run
 198.12
          JOURP
                                A8 2C
                   .ACC
                          18K
                                         all files on one disk with dBASE program
 198.13
         MAIN
                   .ACC
                           5K
                                4C C4
                                         and type 'DBASE MANAGE' (or DBASE ACCOUNT
 178.16
          MAINTAIN.BLD
                          15K
                                87 2F
                                         dBASE on a separate disk and set default
 199.24
          ADD
                   .ACG
                           8K
                                9F 6F
                                        for use with dBASEII (TM) version 2.4.
 199.46
          PHONE
                   .NDX
                                C9 45
                           1 K
                                        dBASEII (TM)
 204.04
          BASIC
                   .BQK
                           5K
                                1B 94
                                        BASIC compiler in F83
 205.04
          BASIC
                   .BQK
                           5K
                                1B 94
                                        BASIC compiler in F83
 209.04
          HEADER6 .BAS
                                59 EC
                          10K
                                        prints a LARGE heading - neat!
 217.17
          FUNCLIB .CMD
                           5К
                                BD AE
                                        dBASEII toolkit library
 221.01
          DBASEMPM.LBR
                           4K
                                4C AF
                                        MP/M dBASE setup programs
          NEWBASE5.LBR
 221.04
                          10K
                                8B 76
                                        dBASE patches
 223.01
          DBIIDATE.PRG
                                60 3D
                           2K
                                        Sets date in DBASEII - NEC APC
 223.03
          FREEBASE.LBR
                          19K
                                88 9E
                                        Data base program
 227.01
          CHECKS
                  .LBR
                          60K
                                45 AA checkbook program in dBASEII
 227.02
          CHURCH
                   .LBR
                          60K
                                F6 98 church Management program in dBASEII
 227.03
          GENEOLGY.LBR
                          75K
                                B0 A0 genealogy program in dBASEII
 231.03
          EXTEND
                   .LBR
                          11K
                                80 8F
                                        Assembly Language Extensions for MS BASIC
 233.08
          UDMAUTOD.BAS
                           5K
                                43 EA
                                        BASIC auto dialer for Modem Tech UDM1200
 234.04
          CURVFIT .LBR
                          38K
                                24 CD
                                        Curve fitting in MBASIC
35.02
          BASICODE.DOC
                          16K
                                        Documentation on BASICODE (in Dutch)
                                B7 AC
 235.03
          BASI CODE. ENG
                           3K
                                B4 A7
                                        Brief intro to BASICODE (in English)
 235.04
          BC2
                   .BQS
                           2K
                                27 C8
                                        "Standard" BASICODE-2 for MBASIC
235.05
          BC2
                   .OSB
                           2K
                                        "Osborne" BASICODE-1 for Osborne 1
                                2B 1D
 235.06
          BC2
                   .OSI
                           2K
                                D8 69
                                        "Ohio Scientific" BASICODE-2
 235.07
          BCREAD
                           8K
                   .AQM
                                75 A2
                                        Read BASICODE-2 in from parallel port
 235.08
          BCTEST
                   .AQM
                                        Test program for BASICODE-2 port transfer
                           4K
                                77 7C
  235.09
          BCWRIT
                   .AQM
                           8K
                                E7 4F
                                        Write out RASICODE-2 process standard
```

```
235.10
         BCWRITE .AQM
                         8K
                               87 D9
                                      Write out BASICODE program, (BASICODE-1?)
                 .BQS
235.11
                               77 2E
                                      BASICODE-2 Tic Tac Toe, in Dutch
         BOKA&EI
                          6K
                                      CBASIC source for BASICODE-2/MBASIC xlate
235.12
                 .BQS
                         4K
                               FE 82
         CONVERT
235.13
                        13K
                               67 B5
                                      Converts from BASICODE-2 to Microsoft BASIC
         CONVERT .COM
235.14
                 .BQS
         DELERS
                        10K
                               A9 BE
                                      BASICODE-2 game of some sort, in Dutch
235.15
         DIGIKLOK.BQS
                         4K
                               82 2F
                                      BASICODE-2 on screen digital clock
235.16
         FEESTEN .BQS
                         4K
                               9D 98
                                      BASICODE-2 shows public holidays, any year
35.19
         KALFEEST.BQS
                          6K
                               9E A3
                                      BASICODE-2 calendar for any month & year
235.21
                               76 3E
                                      BASICODE-2 demo program, in Dutch
        MASSA
                 .BQS
                         4K
                               68 2E
235.22
         SORT
                 .BQS
                          6K
                                      BASICODE-2 sort program, in Dutch
                                      BASICODE-2 solves 3 order quadratics ?
235.23
         STELSELS.BAS
                         4K
                               64 EE
                                      BASICODE-2 game, simple ASCII graphics
235.24
         TANKIE
                          óК
                               00 9B
                 .BQS
        TESTBC2 .BQS
235.25
                         4K
                               F4 46
                                      BASICODE-2 test/excerciser program
235.26
        TIMER555.BQS
                               B4 CA
                          6K
                                      BASICODE-2 designs 555 timer circuits
235.27
         UITLEG1 .BQS
                         6K
                               6E 8E
                                      Introduction to BASICODE? (in Dutch)
         UITLEG2 .BQS
235.28
                         8K
                               22 83
                                      See UITLEG1.BAS
                               DB C0 BASIC BBS (Z80) system
240.11
                 .LBR
                        57K
         ZBBS
243.20
         NORMAL2 .BAS
                          2K
                               74 82
                                      MBASIC best estimate of the true mean
248.01
         DIMS103A.LBR
                        91K
                               2B 52
                                      MBASIC data management system
256.07
                        27K
                               2E BD
         DIALOG11.BAS
                                      script for BBS logon (compiles
256.08
        DIALOG11.COM
                        27K
                               A7 0B
                                      with BASCOM)
```

End of SIGM.DIR

276 lines contained the Key word: BAS Ok

CATALOG DISK (EDITED VERSIONS)

SIGM DIR

209K 50K DIR ZUG

4 file(s).

113 directory entries remaining.
C>STAT P:

Bytes Remaining On P: 68k

·C>

#PV119



CPMUG DIRECTORY vols. 1-91

(as of 2/12/85)

2/12/85

```
C01
           -CATALOG.001
                            3 k
                                 Contents of CP/M Users Group Volume 1
  C01
           VOLUME1.DOC
                            3 k
                                 Comments on certain Volume 1 programs
  CO1.01
           ASSIGN.ASM
                            8k
                                 I/O byte asign. Use with VBIOS31
 CO1.02
                                 Cassette to disk transfer
           CASDSK.ASM
                            2k
  CO1.03
           COPY.ASM
                                 Copy system, date or whole diskette
                            9k
  CO1.04
           COPY.COM
                            8 k
                                 As ASM, used to copy this disk
  CO1.05
           COPYX.ASM
                            9k
                                 As copy, uses internal scratch
           DIABLO.ASM
  CO1.06
                            4k
                                 Romable Hytype/Qume driver
                            8k
  CO1.07
           DISASSM1.ASM
                                 Christensen disassembler DDJ Feb 77
  CO1.08
           DISASSM2.ASM
                            4k
                                 Intel library disassembler
                                 Search for soft and hard disk errors
  CO1.09
           DISKTEST.ASM
                            9k
  CO1.10
           DSKCAS.ASM
                            2k
                                 Diskette to casette transfer
  CO1.11
           ED3.ASM
                            1k
                                 Patches for 'R' bug in CP/M ED.COM
  CO1.12
                           7 k
                                 Sector viewer for VDM. See DISK1.DOC
           EXAM.ASM
           FILES.COM
                           1k
                                 Display disk directory records of files
  CO1.13
                                 Routine to create BIOS primitive jump
                            1k
  CO1.14
           GETVEC.LIB
  CO1.15
                            4k
                                 Diablo driver for 3P+S in Z80
           HYS13.ASM
                                 Diablo driver for 3P+S in 8080
  CO1.16
           HYS15.ASM
                           5k
                                 Copy a file from ISIS diskette
  CO1.17
           ICOPY.ASM
                           7k
  CO1.18
           IDIR.ASM
                           6 k
                                 Lists ISIS directory to console
                           7k
                                 CP/M I/O subroutines. See PRINT
  CO1.19
           LIOS.ASM
           LTG.ASM
                          10k
                                 Create MITS self loading cassette tape
  CO1.20
· CO1.21
           MAZE.ASM
                           6 k
                                 Intel maze program
                                 Intel RAM test
  CO1.22
           MEMTEST.ASM
                           4k
 CO1.23
           PRINT.ASM
                           7k
                                 Mod of PRNT to permit conditional
                           5k
                                 Print files with pagination & page #
  CO1.24
           PRNT.ASM
  CO1.25
           RELOC.ASM
                          10k
                                 CP/M relocation program
                           7 k
                                 Intel Real-Time Executive
 CO1.26
           RTE.ASM
                           4k
                                 Symbol table editor of DISASSM1
 CO1.27
           SEDIT.ASM
 CO1.28
           SPACE.ASM
                          16 k
                                 Re-write of EXAM to allow writing.
 CO1.29
           SPAT.ASM
                           8k
                           3k
                                 VDM graphic
 CO1.30
           TRAIN.ASM
                           4k
                                 Tape reader to disk transfer
 CO1.31
           TREAD.ASM
           VBIOS31.ASM
                          17 k
                                 bios for 32k of memory with VDM
 CO1.32
                                 Cold boot for VBIOS31
                           3 k
 CO1.33
           VBOOT31.ASM
                                 Similar to STAT. Reports # of files and
 CO1.34
           XSTAT.COM
                           1 k
 C05
           -CATALOG.002
                           1k
                                 Contents of CP/M Users Group Volume 2
                          84k
                                 LLL Basic interpreter source
 CO2.01
           LLLBASIC.ASM
                                 Simple patched COM for CP/M
                          38k
 CO2.02
           LLLBASIC.COM
 CO2.03
           LLLBASIC.DOC
                           2 k
                                 Notes on LLL Basic
                                 Floating-point package for LLL Basic
           LLLFP.ASM
                          61 k
 CO2.04
                                 Monitor to test LLL in LLL BASIC.COM
           LLLMON .ASM
                           2 K
 CO2.05
                           2k
 CO2.06
           STARTREK.DOC
                                 Comments on STARTREK.TBI
           STARTREK.TBI
                           6 k
                                 Tiny Basic loadable Startrek
 CO2.07
           TINYBAS.COM
                           3 k
                                 Wang Palo Alto TB w/disk save & load
 CO2.08
                                 Full instructions for TINYBAS
                          13k
           TINYBAS.DOC
 CO2.09
           -CATALOG.003
                                 Contents of CP/M Users Group Volume 3
                           3k
 C03
           VOLUMESA.DOC
                           8k
                                 Comments on some programs
 C03
           VOLUME3B.DOC
                           3 k
                                 Comments on other programs
 C03
                           2k
           ACE.BAS
                                 Basic-E game program
 CO3.01
           AMAZE.BAS
                           4k
                                 Basic-E game program
 CO3.02
           ANIMAL.BAS
                           2k
                                 Basic-E game program
 CO3.03
           BAGELS.BAS
                           2k
                                 Basic-E game program
 CO3.04
                           6 k
                                 Basic-E game program
           BAGELS2.BAS
 CO3.05
           BIOPRINT.BAS
                           7 k
                                 Basic-E game program
 CO3.06
           BLKFRI .BAS
                          11k
                                 Basic-E game program
 CO3.07
           BLKFRI2.BAS
                          10 k
                                 Basic-E game program
 CO3.08
           CANNONS . BAS
                           6k
                                 Basic-E game program
 CO3.09
           CHASE . BAS
                           3k .
                                 Basic-E game program
```

2 k

Basic-F * ame rooram

' IOMP.BAS

CO3.10

```
Basic-E game program
          COMBINE.BAS
                          1k
CO3.12
CO3.13
          CORE.BAS
                          1k
                                Basic-E game program
          CORETEST.BAS
                          1k
C03.14
                                Basic-E game program
          CRAPS.BAS
CO3.15
                          4k
                                Basic-E game program
CO3.16
          EUCLID.BAS
                          1k
                                Basic-E game program
CO3.17
          FIB.BAS
                          1k
                                Basic-E game program
CO3.18
          FIT.BAS
                          1k
                                Basic-E game program
CO3.19
          FORMAT . BAS
                          4k
                                Basic-E game program
                                Instructions for FORMAT.BAS in
CO3.20
          FORMAT.FMI
                          1k
          HANG.BAS
CO3.21
                          5k
                                Basic-E game program
CO3.22
          HELLO.BAS
                          5k
                                Basic-E game program
CO3.23
          KENO.BAS
                          7k
                                Basic-E game program
CD3.24
          LANDER . BAS
                          5k
                                Basic-E game program
CO3.25
          LANES.BAS
                          8k
                                Basic-E game program
CO3.26
          LEM.BAS
                          7k
                                Basic-E game program
CO3.27
          LOAN.BAS
                          3 k
                                Basic-E game program
          LOVE.BAS
                          2k
CO3.28
                                Basic-E graphic
CO3.29
          PLOT2.BAS
                          2k
                                Basic-E game program
CO3.30
          POET.BAS
                          4k
                                Basic-E game program
          README.FMI
CO3.31
                          6 k
                               Another format source with notes
                          5k
CO3.32
          S/TREK.BAS
                                Basic-E game program
CO3.33
          STARS.BAS
                          4k
                                Basic-E game program
          STARTREK.BAS
                         27 k
CO3.34
                                Basic-E game program
CO3.35
          STORY.BAS
                          7k
                                Basic-E game program
CO3.36
         STRIKE9.BAS
                          4k
                                Basic-E game program
CO3.37
          TREKINST
                          7 k
                                Instructions for STARTREK.BAS
CO3.38
         TTT.BAS
                          7 k
                                Basic-E game program
                          9k
CO3.39
          WUMPUS.BAS
                                Basic-E game program
C04
          -CATALOG.004
                          2k
                                Contents of CP/M Users Group Volume 4
C04
                          2k
          VOLUME4.DOC
                                Comments on programs
CO4.01
                         16k
                                Actor manual
          ACT.DOC
                         11k
CO4.02
          ACT31.COM
                                Latest Actor interpreter
                         11 k
CO4.03
          ACT31UC.COM
                                Latest upper-case Actor interpreter
CO4.04
          AMAZE
                          2k
                               Actor program
          AMUSE
                          1k
                               Actor program
CO4.05
                         16 k
                                Obj of CALENDAR.FOR and NUMBER.MAC
CO4.06
          CALENDAR.COM
                          4k
CO4.07
         CALENDAR.FOR
                                Fortran main and sub-programs
                          6 k
                               Actor program - careful with this!
C04.08
          FDL
                          2k
CO4.09
          HAIKU
                               Actor program
                          3 k
                               Actor program
         IOEXAMP
CO4.10
                         11k
                               ML80 module - see .DOC
CO4.11
          L81.COM
                         11k
                               ML80 module - see .DOC
CO4.12
          L82.COM
                               ML80 module - see .DOC
          L83.COM
                          5k
CO4.13
                         10k
                               ML80 module - see .DOC
          M81.COM
CO4.14
                         20k
                                Object of MAZE.FOR and RND.FOR
          MAZE.COM
CO4.15
                               Source of MAZE.COM main
CD4.16
         MAZE.FOR
                          5k
                          1k
                                SUBMIT file to run ML80 source
          ML.SUB
CO4.17
                          1k
                               SUBMIT file to xfer ML80 group via PIP
CO4.18
          MLCOPY.SUB
                                Calendar title generator
                          2k
CO4.19
          NUMBER.MAC
                                Sub-program of MAZE
                          1k
          RND.FOR
CO4.20
                                Object of WDIR.M80 (try itll)
                          1k
CO4.21
          WDIR.COM
                          3 k
                               ML80 source for WDIR.COM
          WDIR.M80
CO4.22
                          1k
                                Object of XDIR.M80 (try it!!)
          XDIR.COM
CO4.23
          XDIR.M80
                          4k
                                ML80 source for XDIR.COM
CO4.24
                          2k
                                Converts std Actor to ACTUC char set
          Z-LCTOUC.ACT
CO4.25
                                Contents of CP/M Users Group Volume 5
                          2k
          -CATALOG.005
C05
                          1k
                                Comments on programs
          VOLUME5.DOC
C05
          21.ASC
                          8k
                                Microsoft Basic program
CO5.01
                         12k
                                Basic-E compiler
          BAS2-0.COM
CO5.02
          BAS2-1.COM
                         12k
                                Basic-E compiler
CO5.03
                                <deleted>
CO5.04
                          5k
                                Microsoft Basic program
          BIO-FF.ASC
CO5.05
          BIORYTH.ASC
                          4k
                                Microsoft Basic program
CO5.06
                         10k
                                Microsoft Basic program
          BUKFRI2.ASC
```

```
<deleted>
CO5.08
                               Microsoft Basic program
CO5.09
          DECISION.ASC
                          2k
CO5.10
                               <deleted>
CO5.11
                               Microsoft Basic program
          EDTEXT ASC
                          6 k
CO5.12
          FORMAT.ASC
                          2k
                               Microsoft Basic program
CO5.13
                               <deleted>
CO5.14
                               Basic-E game program
          OTHELLO.BAS
                         16k
                               instructions for OTHELLO.BAS
C05.15
          OTHELLO.DOC
                          5k
CO5.16
                               Microsoft Basic program
                          2k
          RADIX.ASC
                               Microsoft Basic program
          RECOVERY.ASC
CO5.17
                          1 k
                               Basic-E interpreter
CO5.18
          RUN2-2.COM
                         12k
                               Basic-E interpreter
CO5.19
          RUN2-3.COM
                         12k
C05.20
                               Basic-E interpreter
                         12k
          RUNK2-0.COM
                          4k
                               Microsoft Basic program
CO5.21
          SLOT.ASC
                               Microsoft Basic program
                          2k
CO5.22
          SORT.ASC
                               Microsoft Basic program
CO5.23
          STARTREK.ASC
                          7k
                         14k
                               Microsoft Basic program
CO5.24
          SUPTRK3.ASC
                               <deleted>
CO5.25
                               Contents of CP/M Users Group Volume 6
C06
         -CATALOG.006
                          2k
                               ED.COM patch - change #lines in P cmd
          EDVDM.DOC
                          1k
CD6
                          4k
                               Comments on certain programs
C06
          EXPLAIN.DOC
                               Documentaion on CACHE maillist pgrms
          MAILLIST.DOC
                         19k
C06
                               Tarbell tape MITS Basic CSAVE to ASCII
          BLOAD.ASM
                          6 k
CO6.01
C06.02
          CCOS1.ASM
                        34k
                               CACHE casette operating system
CO6.03
          CKSUM.ASM
                          2k
                               Checksums CP/M files
C06.04
          COMPARE.ASM
                          5k
                               Compares two CP/M files
                        15k
                               Seems to be VDM to casette program
CO6.05
          CUTTER.ASM
                          3 k
                               Interpreted file dump
CO6.06
          IDUMP.ASM
CO6.07
          MAINT.BAS
                          9k
                               Maillist module
         MODEM.ASM
CO6.08
                        13k
                               Program to send and receive files
C06.09
                               <deleted>
         PREFMT.BAS
                          1k
                               Maillist module
CO6.10
                               Diskette directory purge
                          3 k
CO6.11
         PURGE.ASM
                          1k
                               Maillist module
CO6.12
         QUICKIE.BAS
                               Maillist module
CO6.13
         REPORT.BAS
                          8k
C06.14
         SIZE.ASM
                          6 k
                               Gives size of CP/M file
CO6.15
         SLOAD.ASM
                          5k
                               Loader module of CCOS1
         SORT.ASM
                          7 k
                               Maillist module
CO6.16
                               Times Square (newscaster) chrs to VDM
                          4k
CO6.17
         TISQ.ASM
         TLOAD.ASM
                          5k
                               Tarbell loader for TSAVE'd files
CO6.18
                          2k
CO6.19
         TMAP.ASM
                               Map of tape with TSAVE'd files
         TSAVE.ASM
                          5k
                               CP/M file to Tarbell tape with checksum
CO6.20
                               <deleted>
CO6.21
         -CATALOG.007
                          1k
                               Contents of CP/M Users Group Volume 7
C07
                          1 k
                               Comments
C07
         VOLUME7.DOC
CO7.01
         PILOT
                          6 k
                               Loaded MDS object
         PILOT.ASM
                        66 k
                               PILOT source
CO7.02
         PILOT.LST
                       135k
                               MDS assembler listing w/ xref tables
C07.03
         PILOT.OBJ
                          6 k.
                               Relocatable MDS object
CO7.04
         -CATALOG.008
                          4k
                               Contents of CP/M Users Croup Volume 8
C08
                          1k
         ALLOC.COM
                               Graphic display of disk usage
CO8.01
         BANNER.ASM
                          6 k
                               Puts large letters to LST: or PUN:
CO8.02
         BINLOAD1.ASM
                         7k
                               Read disk data from absolute sectors
CO8.03
                          2k
         BIOSGO.LIB
                               Places dummy BIOS where needed (#1.14)
CO8.04
                         2k
                               Pgrm to punch standard BPNF PROM tape
         BPNF.ASM
CO8.05
                          2k
         BSPAT16B.ASM
                               Patch to permit <BS> (ctl-H) to echo
CO8.06
         BYTEMOV.ASM
                          4k
                               Bytesaver PROM burning program
CO8.07
         DDTPATCH.ASM
                          2k
                               Patch corrects assembler errors in DDT
CO8.08
                          9k
         DISKDUP.ASM
                               This is another disk copying program.
CO8.09
         DISKIN.LIB
                         2k
                               Reads single characters from disk files
CO8.10
                         7k
         DISKTES1.ASM
                               General disktest (see CO1.9)
COB.11
         DIVIDE1.LIB
                          1 k
                               Routine to divide 2 byte by 1 byte
CO8.12
```

17 k

Gives # of records extents

DSKDIR.ASM

```
CO8.14
             FMAP.ASM
                             8k
                                  Reads records, clusters, makes file
             FORMAT1.ASM
                             4k
                                  Formatter for Tarbell controller
   CO8.15
             GO.ASM
   CO8.16
                             2k
                                  say "GO FFOO" and as if by magic....
   CO8.17
             INNUM1.LIB
                             2k
                                  Variable radix number input routine.
   CO8.18
             MAC4.ASM
                             9k
                                  Patches: TDL Macros assembler
   CO8.19
             MAKEFCB.LIB
                             3k
                                  Routine to create FCB's
   CO8.20
             MPY8.LIB
                             1 k
                                  Two byte by one byte multiply
   CO8.21
             OUTNUM1.LIB
                             2k
                                  Output a two byte number in any radix
   CO8.22
             PBURN.ASM
                             2k
                                  Bytesaver prom burner (see CO8.7)
   CO8.23
             PRINT2.ASM
                            10k
                                  Revision of CO1.24 for Diablo
   CO8.24
             RECSEC.LIB
                             1k
                                  Translate CP/M record (group-cluster)
             SYMPRT.ASM
   CO8.25
                             4k
                                  Print symbol table fm Basic-E compiler
   CO8.26
             WYLECON2.LIB
                             2k
                                  Routine to translate Wyle keyboard
   COB.27
             XREF.ASM
                            20k
                                  Create X-ref table from Intel assembler
             XSTAT2.ASM
   CO8.28
                             6 k
                                  Source of CO1.34 plus guessed routines
             -CATALOG.009
   C09
                             1k
                                  Contents of CP/M Users Group Volume 9
   CO9.01
             COPCON.ASC
                             2k
                                  G/L program
   CO9.02
             COPRAN.ASC
                             2k
                                  G/L program
   CO9.03
             GETPUT.ASC
                             3 k
                                  G/L program
             GL1.ASC
                             7 k
   CD9.04
                                  G/L program
   C09.05
             GL2.ASC
                            16 k
                                  G/L program
             GL3.ASC
   CO9.06
                             4k
                                  G/L program
   CO9.07
             GL4.ASC
                             4k
                                  G/L program
   CO9.08
             GL5.ASC
                             6 k
                                  G/L program
   CO9.09
             GL6.ASC
                             7k
                                  G/L program
   C09.10
             GL7.ASC
                            13 k
                                  G/L program
   CO9.11
             GLMENU.ASC
                             3 k
                                  G/L program
   CO9.12
             SORTGL.ASC
                             7 k
                                  G/L program
                                  Contents of CP/M Users Group Volume 10
   C10
             -CATALOG.010
                             1k
   C10
             LLLBASIC.DOC
                             4k
                                  Comments on programs in Volume 10
   C10.01
                            85k
                                  See LLLBASIC.DOC
             LLLBASIC.ASM
   C10.02
                             7k
                                  Total assembled package
             LLLBASIC.COM
                            61k
                                  See LLLBASIC.DOC
   C10.03
             LLLFP.ASM
 C10.04
             LLLMON.ASM
                             5k
                                  See LLLBASIC.DOC
                             1k
                                  LLLBASIC test program.
   C10.05
             TEST.FIL
                             1k
                                  Contents of CP/M Users Group Volume 11
   C11
             -CATALOG.011
             VOLUME11.DOC
   C11
                             2k
                                  Comments on contents
                                  Processor Tech 5k Diskified Basic
                            76 k
   C11.01
             BASIC/5.ASM
   C11.02
             BASIC/5.COM
                             8k
                                  5k Basic in 8k (sign of the times)
C11.03
                             7 k
                                  CP/M implementation explained
             BASIC/5.DOC
                                  Was also CO2.7 see VOLUME11.DOC
             STARTREK.TBI
                             6 k
   C11.04
                             1k
                                  Someone uses the SUBMIT program??
             TINICOPY.SUB
   C11.05
                                  Source of Tinidisk
             TINIDISK.ASM
                            62k
   C11.06
                             3 k
                                  Was also CO2.8
             TINIDISK.COM
   C11.07
   C11.08
             TINIDISK.DOC
                            13 k
                                  Was also CD2.9
                                  Contents of CP/M Users Group Volume 12
                             1k
   C12
             -CATALOG.012
                             1k
                                  Source program for ZPILOT
             GOLDI.PLT
   C12.01
             HIPILOT.PLT
                             2 k
                                  Source program for ZPILOT
   C12.02
                            67 k
                                  Patched version of CO7.2
 , C12.03
             PILOT.ASM
                                  See PILOT.DOC
             PILOT.COM
                             5k
   C12.04
                                  Description of CP/M implementation
                             2k
             PILOT.DOC
   C12.05
                             1k
                                  Source program for PILOT.
             PILOT.TST
   C12.06
                             5k
                                  CP/M interface used in PILOT.COM
             PMON.ASM
   C12.07
                                  WIERD.PLT re-coded for PILOT.COM
                             1k
             WIERD
   C12.08
                             1k
                                  Source program for ZPILOT
             WIERD.PLT
   C12.09
                             1 k
                                  Object of ZPILOT.Z80
             ZPILOT.COM
   C12.10
                             7k
                                  Zilog mnemonic src of PILOT interpreter
             ZPILOT.Z80
   C12.11
             -CATALOG.013
                             2k
                                  Contents of CP/M Users Group Volume 13
   C13
                             7 k
                                  Microsoft Basic game
             15/PUZ.ASC
   C13.01
             1500.ASC
                             7 k
                                  Microsoft Basic game
   C13.02
                             24
                 CH.BAS
                                  Basic-F/CBASIC ame
             o 1
```

```
C13.04
                                Basic-E/CBASIC game
          BAGELS.BAS
                          3 k
C13.05
                          4k
                                Microsoft Basic game
          BIORYME.ASC
C13.06
          BLACKJAC.BAS
                          6 k
                                Basic-E/CBASIC game
C13.07
                                Basic-E/CBASIC game
          BULLSEYE.BAS
                          1k
C13.08
          CHECKERS.BAS
                          6 k
                                Basic-E/CBASIC
                                                game
C13.09
                          2k
                                Basic-E/CBASIC game
          CHIEF.BAS
C13.10
                                Basic-E/CBASIC game
          CONVERT.BAS
                          2k
C13.11
                          7 k
                                Basic-E/CBASIC game
          DICE.BAS
C13.12
                                Basic-E/CBASIC game
          KINGDOM.BAS
                          7k
C13.13
                                <deleted>
C13.14
                         15k
                                Basic-E/CBASIC game
          NFL.BAS
C13.15
                          4k
                                Basic-E/CBASIC game
          ROCKET.BAS
                                Basic-E/CBASIC game
                          1 k
C13.16
          RUSSIAN.BAS
C13.17
                                Basic-E/CBASIC game
          SWARMS.BAS
                         16k
                         16k
                                Microsoft Basic game
C13.18
          SWARMS2.ASC
                                Basic-E/CBASIC game
C13.19
          TRAP.BAS
                          2k
          WUMPAS.BAS
                          6k
                                Basic-E/CBASIC game
C13.20
C13.21
                         23 k
                                Long winded review of diskette
          Z0S0.2
                                Contents of CP/M Users Group Volume 14
          -CATALOG.014
                          2k
C14
                          5k
                                Text for SECTEST below
C14.01
          ARTICLE
                                Convert ASCII to IBM 2470
                          6 k
C14.02
          BCD-DRVR
                                High portion of DLOAD - See DOC
                          5k
C14.03
          DLDHI.ASM
                                MITS 3.2 8k Basic to CP/M w CSAVE/CLOAD
                          5k
C14.04
          DLOAD.ASM
C14.05
          DLOAD.DOC
                          4k
                                Implementation notes for DLOAD
                                Running version of DUMP below
                          3 k
C14.06
          DUMP.COM
C14.07
                         23 k
                                Fantastic disk viewer program.
          DUMP . MAC
          LIST32.ASM
C14.08
                                Recover ascii from internal MITS form
                          5k
C14.09
                          2k
                                A PIP to xfer files without ^Z problem
          MOVE, ASM
C14.10
          PUT.ASM
                          3 k
                                Load a file at any memory address
                         10k
                                Instructive version of RELOC/CPM pgrm
C14.11
          REL1.ASM
C14.12
          REL256.COM
                          9k
                                Reloc for integer k-100h system
C14.13
          REL512.COM
                          9k
                               Reloc for integer k-200h system
C14.14
                          9k
                               Reloc for integer k-300h system
          REL768.COM
C14.15
          RELHOW.DOC
                          3 k
                                Notes for relocating CP/M Version 1.3
C14.16
          SECTEST.BAS
                         10k
                               Pgrm to test context comprehension
C14.17
          SECTEST.DOC
                          1 k
                                Bob tells how to use it
          SEDY.ASM
                          7 k
C14.18
                                Disk peeking program.
C14.19
          SEDY.COM
                          2 k 🖟
                                Compilation, as C14.18 written for TDL
          -CATALOG.015
                          2k
C15
                               Contents of CP/M Users Group Volume 15
C15.01
          ALLOC.ASM
                          2k
                                Source of CO8.01 with improvements
          BEASTIE . ASM
                          2k
                               Sol VDM game from Dr. Dobbs
C15.02
          CHASE.ASM
                          8k
                                Sol VDM game from Dr. Dobbs
C15.03
          DUMP.ASM
                          6 k
                                Kernl utility. See C15.07
C15.04
          INIT.ASM
                          3 k
                                Kernl initiation routine. See C15.07
C15.05
          INIT2.ASM
                          3 k
                                Kernl initiation routine. See C15.07
C15.06
          KERNEL.ASM
                         57K
                                kernel of Real-Time Interactive
C15.07
          MDGCBIOS.ASM
                          8k
                                BIOS written in TDL for Tarbell
C15.08
                                Boot for C15.05
                          2k
          MDGSBOOT.ASM
C15.09
          OTHELLO.COM
                         25k
                               Running object from C15.11
C15.10
          OTHELLO.FOR
                         12k
                                Fortran source of board game
C15.11
                         16 k
                               Revised CO8.23 for command line control
          PRINTS.ASM
C15.12
          PROC1.ASM
                          1 k
                               Part of KERNEL (C15.07)
C15.13
                          1k
                               Part of KERNEL (C15.07)
          PROC2.ASM
C15.14
                          2k
                               Part of KERNEL (C15.07)
          PROC3.ASM
C15.15
                               Part of KERNEL (C15.07)
                          1k
          PROC4.ASM
C15.16
                          2k
                               Part of KERNEL (C15.07)
          PROC5.ASM
C15.17
                          1k
                               Part of KERNEL (C15.07)
          PROC6.ASM
C15.18
                                Part of KERNEL (C15.07)
          PROC7.ASM
                          2k
C15.19
                          1 k
                               Part of KERNEL (C15.07)
          PROC8.ASM
C15.20
                                Tarbell tape loader and saver
                          4k
          ROMP.ASM
C15.21
                         46 k
                                Sol Operating System from ACCESS
          SOLOS.ASM
C15.22
                          2k
                                Sol VDM Game by george W. Rompot
          TARGET.ASM
C15.23
          TLOAD.ASM
                          6 k
                                Re-write of CO6.18 - documented
C15.24
                          5k
                                Re-write of CO6.20 - documented
           SAVE.ASM
```

```
Contents of CP/M Users Group Volume 16
   C16
            -CATALOG.016
                            2k
   C16
            VOLUME16.DOC
                            7k
                                 Comments on certain programs
9k
                                 Assembler which recognizes Z-80 ops
            ASMX.COM
            COPYDSK.ASM
                                 Disk copy program. See VOLUME16.DOC
  C16.02
                           12k
   C16.03
                                 As C16.02 for TDL assembler
                           13k
            COPYDSK, MAC
   C16.04
                                 CP/M subroutines useful generally
                            7 k
            CPMUTIL.ASM
  C16.05
                            3 k
                                 Intel-like editor. Faster than ED.COM
            EDIT.COM
  C16.06
                                 8080 instruction set tutor from Byte
                            8k
            EDUCATOR.ASM
  C16.07
            FOCAL.ASM
                           57 k
                                 Focal language interpreter.

> C16.08
            MACASM.COM
                            8k
                                 Macro assembler. See VOLUME16.DOC
                            2k
                                 Load file operating below 100H
   C16.09
            MOVDOWN.ASM
                                 Set disk track from front panel
   C16,10
                            2k
            SEEK.ASM
                                 Re-write of CO1.29 to generalize console
   C16.11
            SPAT1.ASM
                            9k
   C16.12
                            2k
                                 Patch: TDL tape assembler to CP/M
            TASMIO.DOC
                                 See TASMIO.DOC
                            3 k
   C16.13
            TASMIO.HEX
                           18k
   C16.14
            TASMIO.MAC
                                 See TASMIO.DOC
   C16.15
            TEST1A.ASM
                            3k
                                 Successful test for Z80ASM C16.17
                            1k
                                 Unsuccessful test for Z80ASM C16.17
   C16.16
            TEST2.ASM
   C16.17
            Z80ASM.COM
                            9k
                                 Zilog mnemonic assembler. Runs on 8080
                            4k
                                 DOC for C16.17
   C16.18
            Z80DOC.DOC
                                 Source for C16.17
   C16.19
            Z80MAIN.ASM
                           28k
   C16.20
            Z800PCDS.ASM
                            4k
                                 Op codes for C16.17
            Z80SUBS.ASM
                           11k
                                 Subroutines for C16.17
   C16.21
                                 Contents of CP/M Users Group Volume 17
   C17
            -CATALOG.017
                            1k
   C17
                            3 k
                                 Comments on certain programs
            VOLUME17.DOC
                           13 k
                                 Game not yet patched to CP/M
   C17.01
            3DTICTAC.ASM
  C17.02
            CROROS.ASM
                           50 k
                                 Cromemco Resident Operating System
                                 Denver Tiny Basic from Dr. Dobbs
   C17.03
            DENVBAS.ASM
                           16 k
   C17.04
            DISASM.COM
                            6 k
                                 Revision of Intel disassembler
                            6k
   C17.05
            DISPLAY.ASM
                                 Part of space game. See VOLUME17.DOC
  C17.06
            FUNCTION.ASM
                            6k
                                 Part of space game. See VOLUME17.DOC
  C17.07
            MINOL.ASM
                           14k
                                 Corrected version of a Tiny Basic
            NUMS.ASM
                            2k
   C17.08
                                 Part of space game. See VOLUME17.DOC
  C17.09
            PROCCALC.ASM
                           25k
                                 Pro Tech desk calculator package.
            SPACE.ASM
                           19k
                                 Part of space game. See VOLUME17.DOC
  C17.10
            Z80-OPS.ASM
                            7k
  C17.11
                                 Z-80 mnemonics recognized by ASMX C16.01
            -CATALOG.018
                            1k
  C18
                                 Contents of CP/M Users Group Volume 18
  C18
            VOLUME18.DOC
                            1k
                                 Comments on certain programs
  C18.01
            CASUAL.ASM
                           40 k
                                 Casual language from Dr. Dobbs Dec 76
            FLTARITH.ASM
  C18.02
                           39k
                                 Section 1 of Intel 8008 math routines
                                 Section 2 of Intel 8008 math routines
            FPCONV.ASM
                           18k
  C18.03
            MATH.ASM
                           39k
                                 Yale math routines
  C18.04
                            2k
  C18.05
            MATH.DOC
                                 Comments on MATH.ASM C18.04
            MILMON80.ASM
                                 Stand-alone monitor editor assembler
  C18.06
                           24k
            PROCSELF.ASM
                           46 k
                                 Software Package #1. No CP/M I/O yet
  C18.07
            -CATALOG.D19
                            2k
                                 Contents of CP/M Users Group Volume 19
  C19
            VOLUME19.DOC
                            6 k
                                 Comments on volume contents
  C19
                                 Absolute disk editor. See VOLUME19.DOC
            ADE.ASM
                           17k
  C19.01
            COPY.ASM
                            6 k
                                 Disk copy program. See VOLUME19.DOC
  C19.02
            CPM.DOC
                            9k
                                 Imsai's description of CP/M
  C19.03
                           21k
            LINK.ASM
                                 Remote computer control via D C Hayes
  C19.04
            LINK73.ASM
                           17k
                                 Earlier version of C19.04 for std modem
  C19.05
            RM80.ASM
                           60k
                                 Resident PROM monitor. See VOLUME19.DOC
  C19.06
            RM80.DOC
                            8 k
                                 Comments on RM80 C19.06
  C19.07
                            4k
                                 Sorts and packs directory.
            SAP.ASM
  C19.08
            SCOPY.ASM
                            8k
                                 Single drive diskette copy pgrm
  C19.09
            TREAD.ASM
                           16 k
                                 RM80 tape backup utility with C19.11
  C19.10
                           10k
                                 RM80 tape save utility with C19.10
            TSAVE.ASM
  C19.11
                            9k
                                 File copy pgrm for single disk system
            XFER.ASM
  C19.12
                            2k
                                 Contents of CP/M Users Group Volume 20
            -CATALOG.020
  C50
```

7080.020

10

12k

Our talented and modest reviewer ...

```
C20.01
                                Basic-E/CBASIC game
          BLACKJAC.BAS
                          8k
C20.02
                                Basic-E/CBASIC game
          CIVILW.BAS
                          8k
C20.03
                          9k
                                Basic-E/CBASIC game
          FOOTBALL.BAS
C20.04
                          7k
                                Basic-E/CBASIC game
          GOLF.BAS
C20.05
          GUNNER.BAS
                                Basic-E/CBASIC game
                          3 k
C20.06
                                Basic-E/CBASIC game
                          7k
          LUNAR1.BAS
C20.07
          PINUP.PIC
                          9k
                                Picture
C20.08
          PINUP1.PIC
                         18k
                                Picture
C20.09
                                Basic-E/CBASIC game
                          9k
          POKER.BAS
C20.10
          SNOOPY.PIC
                          4k
                                Picture
C20.11
          STARTREK.BAS
                         27 k
                                Basic-E/CBASIC game
C20.12
          STMASTER.BAS
                         57 k
                                Basic-E/CBASIC game
C20.13
                          1 k
                                See ZOSO.20
          STMASTER.DOC
C20.14
          STRTRK/1.BAS
                         33k
                                Basic-E/CBASIC game
                                See ZOSO.20
C20.15
                          7k
          TREKINST
C20.16
          TWEETY.PIC
                          7k
                                Picture
C21
          -CATALOG.021
                          3k
                                Contents of CP/M Users Group Volume 21
                         19k
C21
          ZOSO21.DOC
                                Unadulterated reviewer comments
                         20 k
                                Above for TDL text output processor
C21
          ZOSO21.TOP
                                Unsolicited Testimonial
C21
                         ---
          TDL.HYP
                          3 k
C21.01
          ACYDUCY.ASC
                                Microsoft Basic game
C21.02
          APOLLO.ASC
                          3 k
                               Microsoft Basic game
                          3 k
                                Microsoft Basic game
C21.03
          BANNER.ASC
C21.04
                          4k
          BIO.ASC
                                Microsoft Basic game
C21.05
          BLKFRI3.ASC
                         10k
                                Microsoft Basic game
C21.06
          BLKJK.ASC
                          6 k
                                Microsoft Basic game
C21.07
          CHASE.ASC
                          3k
                                Microsoft Basic game
C21.08
          CHESS.ASC
                         12k
                                Microsoft Basic game
C21.09
          DIAMONDS.ASC
                          1k .
                               Microsoft Basic game
C21.10
          ENTE.ASC
                          4k
                                Microsoft Basic game
C21.11
          ENTEP.ASC
                          6 k
                                Microsoft Basic game
C21.12
          FURS.ASC
                          6 k
                                Microsoft Basic game
C21.13
          HORSE . ASC
                          6 k
                                Microsoft Basic game
C21.14
          KING.ASC
                          8k
                                Microsoft Basic game
C21.15
                                Microsoft Basic game
          LANDER.ASC
                          3 k
C21.16
          MANDALA.ASC
                          2k
                                Microsoft Basic game
C21.17
          MAZE.ASC
                          4k
                                Microsoft Basic game
C21.18
          ROCKET.ASC
                          3 k
                               Microsoft Basic game
C21.19
          RUSSIAN.ASC
                          3 k
                                Microsoft Basic game
C21.20
          SNOOPY.ASC
                                Microsoft Basic game
                          4k
C21.21
          STRTRK/2.ASC
                         21 k
                                Microsoft Basic game
          STRTRK/3.ASC
C21.22
                         20 k
                                Microsoft Basic game
C21.23
          TACOS.ASC
                          1k
                                Microsoft Basic game
C21.24
          TAXMAN.ASC
                          5k
                                Microsoft Basic game
C21.25
          TRADE.ASC
                         16k
                                Microsoft Basic game
C21.26
          TRAP.ASC
                          2k
                                Microsoft Basic game
          W/SEARCH.ASC
C21.27
                                Microsoft Basic game
                          4k
          WARI, ASC
C21.28
                          3 k
                                Microsoft Basic game
          WUMP.ASC
                          7k
C21.29
                                Microsoft Basic game
C55
          -CATALOG.022
                          2k
                                Contents of CP/M Users Group Vol 22
C22
          ZOSO.022
                          5k
                                Description and Application Notes
C22.01
          BIGTREK.ASC
                         48k
                                C22.03 trimmed for TDL disk basic
          BIGTREK.BAS
                         39k
                                Compact version of C22.01 for faster load
C22.02
          STARTREK.TXT
                         54k
                                Starting point of BIGTREK
C22.03
          STRTRK/2.ASC
                         21 k
C22.04
                                A second appearence of program C21.21
          TREKINFO.DOC
                          5k
                                Rules & features of STARTREK & BIGTREK
C22.05
          TREKMOD.ASC
                         42 k
                                BIGTREK trimmed for Microsoft Basic
C22.06
          -CATALOG.023
                          3 k
                                Contents of CP/M Users Group Vol 23
C53
                                Comments on this volume
C23
          VOLUME23 . DOC
                          2k
          STOICCPM.DOC
                          3 k
                                Comments on CP/M STOIC
C23
                         13 k
                                STOIC 8080 assembler
          ASSEMBLE.DOC
C23.01
          DICT.DOC
                          8k
                                STOIC dictionary definitions
C23.02
                          8 k
          :DIT.DOC
   ียง
                                STOIC - -
```

```
C23.04
          FILES.DOC
                               STOIC file system doc
                          9k
         FLOATPNT.DOC
C23.05
                          5k
                               Floating point doc
C23.06
          INTRRUPT.DOC
                          2k
                               Interrupt handler doc
C23.07
                         38k
                               STOIC kernel with CP/M words in 8080
          KERNEL.ASM
C23.08
          KERNEL.DOC
                         24k
                               STOIC kernel doc
C23.09
                               STOIC concepts and structure
         STOIC.DOC
                         46 k
C23.10
          STOICBAS.STC
                         23 k
                               Basic definitions
C23.11
                               Graphics for D/A hardware
          STOICD/A.STC
                          4k
C23.12
                          9k
         STOICEDT.STC
                               Editor
C23.13
                               Fast Fourier Transform
          STOICFFT.STC
                          3k
C23.14
          STOICFLE.STC
                          8k
                               File system
C23.15
         STOICFLT.STC
                         11 k
                               Floating point package
C23.16
          STOICINT.STC
                          5k
                               4 byte integer addition
C23.17
          STOICITP.STC
                          3k
                               Interrupt package
C23.18
                          3 k
          STOICMIS.STC
                               Miscellaneous words
C23.19
          STOICSIN.STC
                          2k
                               Integer sine and cosine
                          2k
C23.20
          STOICSRT.STC
                               Sort routine
C23B.01
          BOOT.ASM
                          7 k
                               STOIC Bootstrap in 8080 Asembler
C23B.02
          BOOT . DOC
                          2k
                               BOOT Doc
C23B.03
          LOAD.DOC
                          6 k
                               Info on Loading STOIC as a Stand-alone Sys
                         13k
                               CP/M STOIC as described in VOLUME23.DOC
C23B.04
         STOIC.COM
C24
                          2k
                               Contents of CP/M Users Group Vol 24
          -CATALOG.024
C24
          VOLUME24.DOC
                          3 k
                               Comments on programs in Volume 24
                               Revision of C14.07
C24.01
                         19k
          DUMP.ASM
C24.02
          DUMP.COM
                          3 k
                               Assembly of C24.01
          MAC40.LIB
C24.03
                          3k
                               Macro library to X-assemble 4004/4040
C24.04
          MACRO.LIB
                         17k
                               Extensive macro library
C24.05
          OPCODE.LIB
                          3 k
                               Extended register operation macro lib
C24.06
                         32k
                               Translate from ratfor to Fortran
          RATFOR.COM
                               Object of C24.09
C24.07
          TAPELIB.COM
                          5k
C24.08
          TAPELIB.DOC
                         12k
                               Description of C24.09
C24.09
          TAPELIB.MAC
                         37 k
                               Transfer files from disk to tape
C24.10
          XDIR.ASM
                         11k
                               Directory program giving 3-wide display
         XDIR.COM
C24.11
                          2k
                               Object of C24.10
C25
                          3 k
                               Contents of CP/M Users Group Vol 25
          -CATALOG.025
                          1k
                               Comments on Volume 25 contents
C25
          VOLUME25.DOC
C25.01
                          2k
                               Notes on C25.02 below
          88-MODEM.DOC
                         32k
C25.02
          88-MODEM.ASM
                               Intelligent terminal pgrm for the IDS88
          BKSPACE.DOC
                          3 k
                               Backspace handling in CP/M and Basic
C25.03
                          4k
                               Memory mapped video board paging info
          FRAGMENT.DOC
C25.04
          LETTER . ASM
                          5k
                               Personalized Form letter generator
C25.05
          DCHAYES.ASM
                          9k
                               Program in DCHAYES modem manual
C25.09
                          7k
C25.10
          DCHDIAG.ASM
                               Diagnostic for DCHAYES modem
                         13k
C25.11
          MODEM.ASM
                               Intelligent terminal program from CACHE
          MODEM.DOC
                               Documentation for C25.11
C25.12
                          3 k
          CBIOS24.ASM
C25.13
                         26 k
                               Bios for Tarbell disk controller
          SBOOT24.ASM
                          2k
                               Boot for Tarbell disk controller
C25.14
                               Bios for dual Persci disk controller
                         26 k
          FBIOS24.ASM
C25.15
          FB00T24.ASM
                          2k
                               Boot for dual Persci disk controller
C25.16
         COPY.ASM
                          9k
                               Users' Group CO1.O3 modified for Tarbell
C25.17
                          9k
C25.18
          FORMAT.ASM
                               Disk initialize program for Tarbell
          TARBELL.DOC
                          3 k
                               Notes on C25.13 through C25.18
C25.19
                               CP/M operation & undocumented features
          NOTES.VAN
                          3 k
C25.20
         CAT.ASM
                          5k
                               Master Disk Catalog System program
C25.21
          UCAT.ASM
                          8k
                               Master Disk Catalog System program
C25.22
         QCAT.ASM
                          5k
                               Master Disk Catalog System program
C25.23
                          7k
         CATALOG.DOC
                               Documentation for Master Catalog System
C25.24
          STOIC.COM
                         13 k
                               CP/M STOIC constructed per VOLUME23.DOC
C25.25
          BOOT.ASM
                          7k
                               STOIC bootstrap in 8080 assembler
C25,26
                          2k
          BOOT . DOC
                               Boot documentation.
C25.27
                          6 k
          LOAD.DOC
                               Information on loading STOIC
C25,28
                          1k
          STATPCH.ASM
                               Device name patches for STAT
C25.29
          TTYDRV.MAC
                          3 k
                               TTY drivers from Microsoft Fortran
C75 30
```

```
-CATALOG.026
                               Contents of CP/M Users Group Volume 26
C26
                          2k
C26
          ZOSO26.DOC
                         32k
                               Our reviewer's comments on vol 26 & 27
C26.D1
          BACCRRT.ASC
                          4k
                               Microsoft Basic game. See ZOSO26.DOC
C56 '05
          BASEBALL.ASC
                         14k
                               Microsoft Basic game
C26.03
         BIOCAL.ASC
                          7 k
                                                    See ZOSO26.DOC.
                               Biorhythm program.
C26.04
          BIRTHDAY.ASC
                               Gives day of week for any date
                          6k
C26.05
          BLACKJCK.ASC
                          8k
                               Microsoft Basic game. See ZOSO26.DOC
C26.06
         BUDGET.ASC
                         10k
                               Budget program.
                                                 See ZOSO26.DOC
C26.07
                               Microsoft Basic game
         CHASE.ASC
                          3k
C26.08
         CHESS.ASC
                         12k
                               Microsoft Basic game
C26.09
         CIVILWAR.ASC
                          9k
                               Microsoft Basic game
C26.10
         CLIMATES.ASC
                               Microsoft Basic game
                          6k
C26.11
          CLOUD-9.ASC
                               Microsoft Basic game
                          6k
          CRAPS.ASC
                               Microsoft Basic game
C26.12
                          5k
          CRAZY-8.ASC
                          7k
C26.13
                               Microsoft Basic game
C26.14
          GALAXY.ASC
                          1 k
                               Microsoft Basic game
C26.15
          GALAXY2.ASC
                          2k
                               Microsoft Basic game
          SQUARE.ASC
                               Microsoft Basic game
C26.16
                          8k
         SWARMS.ASC
                         16k
                               Microsoft Basic game
C26.17
         WEATHER.ASC
C26.18
                          8 k
                               Microsoft Basic game
C26.19
         WORD-PLZ.ASC
                          5k
                               Microsoft Basic game
C26.20
         OTHELLO.FOR
                         12k
                               Fortran version of Othello on vol 15.
C26.21
         OTHELLO.COM
                         22 k
                               Executable C26.20
                               Copy from console to XXX.SUB file.
C26.22
         CHAIN.ASC
                          1 k
C26.23
         EDITM.FOR
                          2k
                               Fortran IV program. Writes M80 PRN file
C27
         CATALOG.027
                          2k
                               Contents of CP/M Users Group Volume 27
C27
                         32k
                               Our reviewer's comments on vol 26 & 27
         Z0S027.D0C
C27.01
         ANTONYMS.ASC
                          6 k
                               Microsoft Basic game
                          4k
                               Disassembler
C27.02
         DISSAMBR.ASC
C27.03
                          8k
                               Microsoft Basic game
         DOTS.ASC
C27.04
         DRAGRACE.ASC
                          3k
                               Microsoft Basic game
                          8k
C27.05
                               Microsoft Basic game
         FOOTBALL.ASC
C27.06
         GOLF.ASC
                         10k
                               Microsoft Basic game
C27.07
         GREEKRTS.ASC
                          2k
                               Microsoft Basic game
                          6k
                               Microsoft Basic game
C27.08
         HANGMN-1.ASC
                          6 k
                               Microsoft Basic game
C27.09
         HANGMN-2.ASC
                          6 k
                               Microsoft Basic game
C27.10
         HANGMN-3.ASC
                          3k
                               Microsoft Basic game
C27.11
         HIDESEEK.ASC
C27.12
         IQUEEN.ASC
                          5k
                               Microsoft Basic game
C27.13
         MASTERMD . ASC
                          2k
                               Microsoft Basic game
                               Microsoft Basic game
C27.14
         MAZE.ASC
                          5k
                          7 k
                               Microsoft Basic game
C27.15
         MEMBRAIN.ASC
                               Microsoft Basic game
                          2k
C27.16
         NIM.ASC
                          7 k
                               Microsoft Basic game
C27.17
         ROULETTE.ASC
                               Microsoft Basic game
C27.18
         SHOP.ASC
                          9k
C27.19
         SNOOPY.ASC
                          4k
                               Generates Snoopy picture
                               Microsoft Basic game
         STARTREK.ASC
                          7 k
C27.20
                               Microsoft Basic game
         SYNONYMS.ASC
C27.21
                          8k
                         11k
                               Microsoft Basic game
         BLUFF.INT
C27.22
         RUN.COM
                         12k
                               Run program to execute BLUFF.INT.
C27.23
                         46 k
                               C22.01 trimmed to run in 63k system
C27.24
         MEGATREK.ASC
         MEGATREK.DOC
                          1 k
                               Note on Megatrek
C27.25
         -CATALOG.028
                          3 k
                               Contents of CP/M Users Group Volume 28
C28
                          6 k
                               Documentation for database system
          DATABASE.DOC
C28.01
                          6 k
                               D.B. system file load utility
         DBENTRY.BAS
C28.02
                          7 k
                               D.B. system query and update module
         DBQUERY.BAS
C28.03
                          7k
         DBSETUP.BAS
                               D.B. system file initialization module
C28.04
         INV.
                          1k
                               File definition for inventory data base
C28.05
          INV.IND
                          1 k
                               Sample part # index for inventory file
C28.06
                         23 k
         MAILLIST.DOC
                               Updated Doc for CACHE mailing list
C28.07
                         11k
                               Updated maillist. Handles more fields
         MAINT.BAS
C28.08
          REPORT.BAS
                         11k
                               Improved maillist report program.
C28.09
```

ALGOLM.COM

14k

Alcolm compiler by Lt. M. Morenville

```
C28.12
         ALGINTRO.TXT
                          9k
                               Algolm introduction
C28.13
         ALGSTART.TXT
                          3k
                               Algolm run instructions
C28.14
         COMERR.TXT
                          2k
                               Algolm compile errors documentation
C28.15
         RUNERR.TXT
                               Algolm run time errors documentation
                          2k
C28.16
         USRMAN.TXT
                         25k
                               Algolm User Manual
C28.17
         ARRAY.ALG
                          3 k
                               Algoim program
C28.18
         BOOLINT.ALG
                          1k
                               Algolm program
C28.19
         CASETEST.ALG
                          1k
                               Algolm program
C28.20
         CASETWO.ALG
                          1k
                               Algolm program
C28.21
         FLYTEST.ALG
                          1k
                               Algolm program
C28.22
         GOTOTEST.ALG
                          1k
                               Algolm program
C28.23
         HANOI.ALG
                          1k
                               Algoim program
C28.24
         LUNAR . ALG
                          2k
                               Algolm program
C28.25
         PERM.ALG
                          2k
                               Algolm program
         READWORD.ALG
C28.26
                          2k
                               Algolm program
C28.27
          RWINT.ALG
                          1k
                               Algolm program
                          1k
C28.28
          SIISTR.ALG
                               Algolm program
          SORT.ALG
                          2k
C28.29
                               Algolm program
C28.30
          STRING.ALG
                          1k
                               Algolm program
                          1k
C28.31
         STRTST.ALG
                               Algoim program
C28.32
          BLKTEST.ALG
                          1k
                               Algolm program
C28.33
          ONEND2.ALG -
                          1k
                               Algolm program
C28.34
         WFILE.OUT
                          1k
                               Algolm program output
C28.35
         WINPUT.INP
                          1k
                               Demo input file for READWORD
                          1k
                               Demo input file for RWINT
C28.36
         RFILE.INP
C28.37
         BLK.INP
                          1k
                               Demo input file
C28.38
         FILE1.INP
                          1k
                               Demo input file
                               Demo input file
C28.39
         FILE2.INP
                          1 k
C28.40
         ADM3.MOD
                          4k
                               Mods for ADM3
C29
         -CATALOG.029
                          3k
                               Contents of CP/M Users Group Volume 29
C29
         VOLUME29.DOC
                          3 k
                               Comments on programs on Volume 29
                         25k
C29.01
         TTT.ASM
                               3-d tic tac toe game
         CHASE.ASM
                               VDM/SOL game - C15.03 with CP/M I/O
C29.02
                          9k
                               VDM/SOL game
C29.03
         TARGET.ASM
                          3 k
         DEFLECT.ASM
                          8k
                               VDM game
C29.04
C29.05
         MUSIC.ASM
                          8k
                               Music program
                          2k
         MUSICP.COM
                               Music program for "Sounds of Silence"
C29.06
C29.07
         PIRANHA.ASM
                         12k
                               VDM game
C29.08
         ROBIN.ASM
                         19k
                               Uses Poly VTI - See VOLUME29.DOC.
C29.09
         ROBOT.ASM
                          3k
                               VDM game
         ALLOC.ASM
C29.10
                          2k
                               Disk allocation display.
                                                           See Doc
                         24k
                               Disassembly of C16.05 - See VOLUME29.DOC
C29.11
         EDIT.ASM
                          5k
         SAP.ASM
                               Sorts and packs directory.
                                                             Improved
C29.12
                          3 k
C29.13
         NOTATE.ASM
                               Adds comments to ASM source.
         SYMSTACK.LIB
                          1k
                               Assembler time push/pop LIB for MAC.
C29.14
         NCOMPARE.LIB
                          2k
                               Corrected version of D/R distribution
C29.15
                         11k
                               Corrected version of D/R distribution
         SEQIO.LIB
C29.16
         WHENS.LIB
                          1 k
                               Modification of D/R version
C29.17
                         1k
                               Modification of D/R version
         DOWHILES.LIB
C29.18
         SELECTS.LIB
                          2k
                               Modification of D/R version
C29.19
                               Subroutine callable from Fortran-80
                          1k
         IGADD.MAC
C29.20
         MON1.MAC
                          1k
                               Subroutine callable from Fortran-80
C29.21
                          1 k
                               Subroutine callable from Fortran-80
         MON2.MAC
C29.22
                               Converts COM file to HEX. Use MAC.
         UNLOAD.ASM
                          2k
C29.23
                         14k
         FPCONV.SRC
                               Basic-E Floating Point conversion pkg
C29.24
                          2k
                               Equate tables for FPCONV
         FPDATA.SRC
C29.25
         FPINT.SRC
                          8k
                               Interface Interpreter and F.P. pkg
C29.26
         FPPCG.SRC
                         29k
                               Interpreter
C29.27
         TRAN.SRC
                         13 k
                               Transcendental Function package
C29.28
                          5k
                               1 disk move program. Assemble with MAC.
         MOVE.ASM
C29.29
         MOVENMAC . ASM
                          6 k
                               MOVE.ASM w/macros expanded for assembly
C29.30
                          5k
                               Sign generator for VDM.
         TIMESQ.ASM
C29.31
         WSYSGEN . ASM
                          3 k
                               SYSGEN a stack of disks easily.
C29.32
```

1 k

M DOC

Modi d t pace 16 lines instead of 24

Algolm INT file interpreter

C28.11

RUNALG.COM

14k

```
C30
          -CATALOG.030
                           1k
                                Contents of CP/M Users Group Volume 30
C30.01
          BASCOM.LIT
                           2k
                                Literal equates
C30.02
          BASIC.PLM
                         39k
                                V1.4 Basic-E compiler modified for CP/M
C30.03
          BASPAR . PLM
                         14k
                                Parser module
C30.04
          BASSYN.PLM
                         54k
                                Symbol table and code generator module
C30.05
          BASIC.COM
                         12k
                                Executable compile module
C30.06
          RUN.PLM
                         66 k
                                Run module
C30.07
          RUN.COM
                         12k
                                Executable run module
C30.08
          BUILD.PLM
                         17k
                                Invoked when RUN called
C31
          -CATALOG.031
                           2k
                                Contents of CP/M Users Group Volume 31
C31.01
                                Table of Contents
          TBASIC.TOC
                           2k
C31.02
                                Chapter 1
          TBASIC.1
                           3 k
C31.03
          TBASIC.2
                           2k
                                Chapter 2
          TBASIC.3
C31.04
                           3 k
                                Chapter 3
                                Chapter 4
C31.05
          TBASIC.4
                           3 k
C31.06
                           3 k
                                Chapter 5
          TBASIC.5
C31.07
          TBASIC.6
                           3 k
                                Chapter 6
C31.08
          TBASIC.7
                           4k
                                Chapter 7
C31.09
          TBASIC.8
                           3 k
                                Chapter 8
C31.10
          TBASIC.9
                           2k
                                Chapter 9
C31.11
          TBASIC.10
                           3 k
                                Chapter 10
                           3 k
C31.12
          TBASIC.11
                                Chapter 11
C31.13
          TBASIC.12
                           2k
                                Chapter 12
C31.14
                           2k
          TBASIC.13
                                Chapter 13
C31.15
                           2k
          TBASIC.14
                                Chapter 14
C31.16
          TBASIC.15
                           2 k
                                Chapter 15
C31.17
          TBASIC.A
                           3 k
                                Appendix A
C31.18
          TBASIC.B1
                           3 k
                                Appendix B
                                            page 1
C31.19
          TBASIC.B2
                                Appendix B
                           3 k
                                            page 2
C31.20
          TBASIC.C
                           3 k
                                Appendix C
C31.21
          TBASIC.D1
                           2k
                                Appendix D page 1
C31.22
          TBASIC.D2
                          2k
                                Appendix D
                                            page 2
C31.23
          TBASIC.E
                          3 k
                                Appendix E
C31.24
          TBASIC.H
                          1k
                                Appendix H
C31.25
          TBASIC.I
                          3 k
                                Appendix I
C31.26
          TBASIC.J
                          2k
                                Appendix J
          TBASIC.K
C31.27
                          1k
                                Appendix K
C31.28
          TBASIC.IND
                          3k
                                Index
          TBASIC.AD
C31.29
                          3 k
                                Product description
C31.30
          TBASIC.CPM
                          3 k
                                Special instructions
C31.31
          TBASIC.COM
                                Executable module
                         21 k
C31.32
          TBASICA4.ASM
                         43 k
                                Source module
          TBASICA5.ASM
                         55k
                                Source module
C31.33
C31.34
          TBASICA6.ASM
                         26 k
                                Source module
C32
          -CATALOG.032
                          1 k
                                Contents of CP/M Users Group Volume 32
C32.01
          READ.ME
                          1k
                                Note from Tarbell Electronics
          RTMASM.COM
                         10k
                                Multi input file assembler
C32.02
          RTMASM.DOC
                        . 3k
                                Instructions for assembling
C32.03
                         26 k
                                Source module
C32.04
          TBASICA1.ASM
          TBASICA2.ASM
                         47 k
                                Source module
C32.05
          TBASICA3.ASM
                         53 k
                                Source module
C32.06
          TBASICIO.ASM
                         19k
                                Source module
C32.07
          -CATALOG.033
                          2k
                                Contents of CP/M Users Group Volume 33
c33
          -SAR.DOC
                          8k
                                Descriptions of the SAR programs
C33.01
                          1 k
          ADDPOD.BAS
                                Calculates probability of detection
C33.02
                                RJCASP to use Summagraphics Bitpad
                         18k
          BITCASP.BAS
C33.03
                         22k
          CAESAR.BAS
                                Flight log keeper
C33.04
          CAESAR.BQ
                          2k
                                Caesar briefing questionaire
C33.05
                          2k
          CAESAR.DQ
                                Caesar debriefing questionaire
C33.06
                          4k
                                Caesar mission questionaire
          CAESAR.MQ
C33.07
          CAPSERCH.BAS
                           4k
                                Game to teach fundamentals of SAR
C33.08
```

20k

Demonstrator for BITC SP

CASPGAME.BAS

C33 0 6

```
14k
                                Expanded version of RJCASP
          CASPPLUS.BAS
C33.10
                          7k
                                Re-write of N-ELT1
C33.11
          DFELT.BAS
          ELTPOD.BAS
                          3 k
C33.12
                                Calc electronic discovery probabilities
C33.13
          N-ELT1.ASC
                         10k
                                Microsoft Basic version - see C33.15
C33.14
          N-ELT1.BAS
                                CBasic version - see C33.15
                         10k
C33.15
                                R.D.F. to localize radio beacon
          N-ELT1.DOC
                          6 k
C33.16
          OPT.BAS
                          2k
                                Tests probability of visual detection
C33.17
                                Allocation of search resource
          RJCASP.BAS
                          Зk
C33.18
          SERCHGME.BAS
                          9k
                                C33.08 re-written as structured program
C33.19
          VISPOD.BAS
                          3 k
                                Calc visual discovery probabilities
C34
          -CATALOG.034
                          3 k
                                CONTENTS OF CP/M VOL. 34
C34.01
                          1k
                               Quick look at SAM76
          ABSTRACT.034
C34.02
          ASTRO.FNT
                          8k
                                Astrological signs for graphics
                          1 k
                                Function documentation
C34.03#
          BONUS.DOC
C34.04#
          BOOK.DOC
                          1k
                                How to order SAM76 manual
C34.05#
          COPY.COM
                          1 k
                                * Disk copy program
                                Part of SAM76 setup procedure
C34.06#
                          1k
          CPMSETL.COM
                                Some interesting demo programs
C34.07
          DEMO.SAM
                          3k
          DIRFIX.SAM
                          1k
                                Disk directory routines
C34.08
                                Various routines w/clock driver
C34.09
          EXTF.ASM
                         19k
                                Various routines w/clock driver
C34.10
          EXTF.DOC
                          1 k
C34.11#
          FRIEND.DOC
                          1k
                                oops!! Something not on disk!
                          2k
C34.12#
          G.SAM
                                Sets up SAM for load-and-go
C34.13
                          1k
                                Hex to octal to hex
          HOOH.SAM
                                Interpreted file dump (**)
C34.14#
          IDUMP.COM
                          1k
C34.15#
                         13k
                                Raw copy of SAM76.
          ILRAW.COM
                         10k
C34.16
          INFO.SAM
                                Creates following .DOC files
                          1 k
                                <<Empty>> ??
C34.17#
          INFO1.DOC
C34.18#
          INFO2.DOC
                         . 1 k
                                Misc. DOC
                          2k
C34.19#
          INFO3.DOC
                                Misc. DOC
                          1k
                                <<Empty>> ??
C34.20#
          INFO4.DOC
                          2k
C34.21
          INFO5.DOC
                                Misc. DOC
                          1k
                                * Sort and pack directory
C34.22#
          KSAP.COM
C34.23
          LABEL.SAM
                          3 k
                                Demo prog
C34.24
          LOOP.SAM
                          1k
                                Demo prog
C34.25
          MOVE2.SAM
                          1k
                                Demo prog
                          1 k
                               Multiplies long decimal #'s
C34.26
          MULT.SAM
                          5k
C34.27
          NEWS.SAM
                               Random news story generator.
                         10k
C34.28
          P1UR.FNT
                               Used with graphics
                         15k
C34.29
          PLOT.ASM
                               For graphics on Poly/TRS-80
          PLOT.DOC
                          1k
                               For graphics on Poly/TRS-80
C34.30
                          7k
          PRINT.SAM
                               Print SAM files
C34.31
          READ-ME.DOC
                          3 k
                                One user's experiences.
C34.32#
          S.DOC
                          2k
C34.33#
                                Doc on creating S.COM
                          1k
                               Demo
C34.34
          SIZE.SAM
C34.35
          SIZLST SAM
                          1 k
                                Demo
          SLED.SAM
                          4k
                               Demo
C34.36
C34.37#
          THREED.SAM
                          4k
                                Demo
                          7 k
                               Doc on SAM (nonstandard text/file format)
C34.38
          UPDO51.TXT
                          7 k
C34.39
          UPD052.TXT
                                Doc on SAM (nonstandard text/file format)
                                Demo
C34.40
          VERIFY.SAM
                          1k
          VOLSAM.DOC
                          6 k
                               Volume documentation
C34.41#
          X$UTIL.SAM
                          3 k
                               Demo
C34.42#
          XD.COM
                          4k
                                * directory lister
C34.43#
                                * directory lister
          XDIR.COM
                          1k
C34.44#
          XM.COM
                          1k
                                 directory lister
C34.45#
                          4k
                               Contents of CP/M VOL. 35
          -CATALOG.035
C35
          ABSTRACT.035
                          2k
                               Abstract of disk contents
C35
                                Source code; A bee & a bird cartoon
          BEE.FAS
                          2k
C35.01
                               Executable bee story
                         10k
C35.02
          BEE#.FEX
                          5k
          CHECKOU&.FEX
                                Executable checkout.
C35.03
          CHECKOUT.FAS
                          4k
                                Felix pseudo-machine diagnostic program
C35.04
          CLEAR . ASM
                          8k
                                Start of FELIX source code
C35.05
           · ATF. ASM
                          1 k
                                FFLIX source code
```

```
C35.07
          DISPONOF.ASM
                          1k
                               FELIX source code
                               Demo of distance operator
C35.08
          DISTEST.FAS
                          1k
                               Executable Distance Test
                          5k
C35.09
         DISTest&.FEX
                               FELIX source code
C35.10
         DISTPLUS.ASM
                         11k
                               FELIX source code
C35.11
          DOODLE.ASM
                         14k
C35.12
         DOODLE.COM
                          1k
                               Object Drawing Utility
                          3k
                               FELIX source code
C35.13
          DSKRD.ASM
C35.14
                          1 k
                               Pseudo-Machine Interpreter
          EXEC.COM
                               The 'actual' pseudo-machine
C35.15
                          2k
          EXEC.OBJ
C35.16
                               FELIX source code
          EXECPLUS.ASM
                          9k
                               FELIX source code
C35.17
          EXECSAFE, ASM
                          2k
                         10k
                               C35.42 with a pretty init. background
C35.18
          FANCY#.FEX
                               Pseudo-Code Assembler
                          9k
C35.19
          FASM.COM
                               FELIX source code
C35.20
                          1k
          FCBMOV.ASM
C35.21
                          1k
                               FELIX source code
          FCBNEW.ASM
                               FELIX source code
                          5k
C35.22
          FELIX.ASM
                               Initial Setup Routine
C35.23
          FELIX.COM
                          1k
C35.24
          FELIX.DOC
                          7k
                               Some details about the system
                          3k
                               The 'actual' base routines
C35.25
          FELIX.OBJ
                          3k
                               Author's original volume cat.
C35.26
          FELIXV1.CAT
                               FELIX source code
                         2k
C35.27
          GETF.ASM
C35.28
          GETW.ASM
                          2k
                               FELIX source code
                               FELIX source code
          HEXOUT.ASM
                          2k
C35.29
C35.30
          LOADBACK.COM
                          2k
                               Utility to load backgrounds
                          2k
                               Utility for getting objects from disk
C35.31
          LOADOB.COM
                               Utility for getting pgrms from disk
C35.32
          LOADPROG.ASM
                          5k
C35.33
                          1 k
          LOADPROG.COM
                               Object of above
                          2k
C35.34
         MUSTANG.FAS
                               Cowboy jumps on a horse as it rides by
C35.35
                          6k
                               Executable cowboy story
         MUSTANG&.FEX
C35.36
         NUMBER.ASM
                         15k
                               FELIX source code
                         3k
                               FELIX source code
C35.37
         OBJECT.ASM
                          1k
                               FELIX source code
C35.38
         OBJNULL.ASM
C35.39
                         1 k
                               Source code for a simple painter
         PAINT.FAS
                               PAINTER for use with your own objects
C35.40
         PAINT.FEX
                          1 k
C35.41
         PAINT.PRN
                         2k
                               PAINT.FAS listing
C35.42
         PAINT& FEX
                         6 k
                               Painter for use with its own objects
         PAINTER.FEX
C35.43
                         4k
                               Painter using 'Theta' (added A/D in)
C35.44
         PAINTER&.FEX
                         6 k
                               Painter with Theta and its own objects
                         11k
C35.45
         PARM.ASM
                               FELIX source code
                               FELIX source code
C35.46
         PATH.ASM
                         3 k
C35.47
         POSIT.ASM
                         3 k
                               FELIX source code
         PUTF.ASM
                               FELIX source code
C35.48
                         3k
                               FELIX source code
C35.49
         PUTW.ASM
                         3 k
         RESCALE.ASM
                               FELIX source code
C35.50
                         1 k
                          5k
         ROTATE.ASM
                               FELIX source code
C35.51
                               Sort and Pack Directory (not functional)
C35.52
         SAPD.COM
                         1 k
C35.53
         SAVEBACK.COM
                         2k
                               Utility for saving backgrounds to disk
         SAVEOB.COM
                         2k
                               Utility for saving objects to disk
C35.54
                               FELIX source code
         SHOWSWAP.ASM
                          5k
C35.55
                               A SIN-COS table + some routines
         SINCOS.OBJ
                          4k
C35.56
         SPIN.ASM
                          1k
                               FELIX source code
C35.57
C35.58
         TABLE.ASM
                         1k
                               FELIX source code
         TRACE.ASM
                         2k
                               FELIX source code
C35.59
         TRACE.COM
                          1k
                               Pseudo-machine interpreter with trace
C35.60
                               FELIX source code
         XTRA.ASM
                         2k
C35.61
         -CATALOG.036
                         2k
                               Contents of CP/M Users Group Volume 36
C36
         ABSTRACT.036
                         6k
                               Abstract on some files
C36
                         7 k
                               Combine .ASM files & delete comments
         COMBINE.ASM
C36.01
         COMBINE.COM
                          1k
                               Combine .ASM files & delete comments
C36.02
                               Convert CP/M to electric pencil files
         CPM-PEN.ASM
                          4k
C36.03
                               Convert CP/M to electric pencil files
         CPM-PEN.COM
                          1 k
C36.04
         FIND.ASM
                          8k
                               Find ASCII string in 1 or more files
C36.05
                               Find ASCII string in 1 or more files
         FIND.COM
                          1k
C36.06
         FIND.DOC
                         1 k
                               Find ASCII string in 1 or more files
C36.07
         182.COM
                         11 k
036.08
                               MUSO Company
```

```
C36.09
          LINES.COM
                          1k
                                Count lines in an ASCII file
C36.10
          LINES.DOC
                          1 k
                                Count lines in an ASCII file
C36.11
          LINKASM.COM
                          6 k
                               ASM.COM with feature to link files
C36.12
          LINKASM.DOC
                          5k
                               ASM.COM with feature to link files
C36.13
          LIST.COM
                          1 k
                               List files with starting line number
C36.14
          LIST.DOC
                          1 k
                                List files with starting line number
C36.15
         M81.COM
                         10k
                               ML80 Component
C36.16
         MACG.AZM
                               I/O drivers for TDL macro assembler
                         11k
         MAC6.COM
C36.17
                          2k
                               I/O drivers for TDL macro assembler
C36,18
         MAC6.DOC
                          4k
                               I/O drivers for TDL macro assembler
C36.19
         MBMBOT.ASC
                          8k
                               Memory bank boot & mgmt
C36.20
          MFACCESS.LIB
                          3k
                               Subroutine to setup multiple files
C36.21
          ML80.DOC
                          2k
                               DOC on ML80 components
C36.22
          ML80.REF
                          9k
                               Reference material on ML80
C36.23
          PEN-CPM.ASM
                          3 k
                               Convert Electric Pencil to CP/M file
          PEN-CPM.COM
C36.24
                               Convert Electric Pencil to CP/M file
                          1k
C36.25
          PEN-CPM.DOC
                          2k
                               Convert Electric Pencil to CP/M file
C36.26
          POW.ASM
                         24k
                                Source for text processor
C36.27
          POWCMDS.POW
                          5k
                               POW documentation
C36.28
                               More POW doc.
          POWTEXT POW
                          2k
          SCRAMBLE.ASM
C36.29
                          6 k
                               File encode/decode
C36.30
                          2k
                               Doc on above
          SCRAMBLE.DOC
                               CP/M text editor with help features
C36.31
          TED.COM
                         17 k
C36.32
          TED.DOC
                         23 k
                               CP/M text editor with help features
C36.33
          TOP.AZM
                         10k
                               TDL Text output processor patches
                               TDL Text output processor patches
C36.34
          TOP.PRN
                          5k
C36.35
          TOP.TOP
                          3 k
                               TDL Text output processor patches
C36.36
         XREF.ASM
                         22k
                               Cross references .ASM files
                               CONTENTS OF CP/M VOL. 37
C37
          -CATALOG.037
                          4k
C37
                          6 k
                               Abstract of disk contents
          ABSTRACT.037
C37.01
                          3k
                               Metric conversion in CBASIC
         AREA BAS
C37.02
          AREA.INT
                          2k
                               Metric conversion in CBASIC
C37.03
          CHAIN. BAS
                          3 k
                               Menu program for arithmetic drills
C37.04
          CHAIN.INT
                          2k
                               Menu program for arithmetic drills
                          1k
                               Part of arith. drill progs.
C37.05
          COMMON1.TXT
          COMPILE.SUB
                          1 k
                               Compiles arith. drill progs
C37.06
                          3k
                               Data table for MANPARTS
C37.07
          CPUPARTS.BAS
                         41 k
C37.08
          CRAPS.BAS
                               Very complete program
          CRAPS.DOC
                          1k
C37.09
                               Very complete program
          CRAPS.INT
                         19k
                               Very complete program
C37.10
                          3 k
C37.11
          DEC1.BAS
                               Arithmetic drill
          DEC1.INT
                          2k
                               Arithmetic drill
C37.12
          DEC2.BAS
                          2k
                               Arithmetic drill
C37.13
                          2k
          DEC2.INT
                               Arithmetic drill
C37.14
                          3 k
C37.15
          DEC3.BAS
                               Arithmetic drill
          DEC3.INT
                          2k
                               Arithmetic drill
C37.16
          DEC4.BAS
                          3 k
                               Arithmetic drill
C37.17
          DEC4.INT
                          3 k
                               Arithmetic drill
C37.18
                          3 k
                               Arithmetic drill
          DEC5.BAS
C37.19
          DEC5.INT
                          3 k
                               Arithmetic drill
C37.20
          DEC6.BAS
                          3k
                               Arithmetic drill
C37.21
          DEC6.INT
                          3 k
                               Arithmetic drill
C37.22
          DECIMAL.BAS
                          3 k
                               Arithmetic drill
C37.23
                          2k
                               Arithmetic drill
          DECIMAL.INT
C37.24
          DISK.PRN
                          2k
                               More doc on CRAPS
C37.25
          DISTANCE.BAS
                          3 k
                               Metric conversions drill
C37.26
                          3 k
                               Metric conversions drill
          DISTANCE.INT
C37.27
         FORMULA.BAS
                          5k
                               Drill formulas, volume, etc
C37.28
                          4k
                               Drill formulas, volume, etc.
          FORMULA.INT
C37.29
          FRAC1.BAS
                          3 k
                               Arithmetic drill
C37.30
          FRAC1.INT
                          2k
                               Arithmetic drill
C37.31
                          3 k
                               Arithmetic drill
          FRAC2.BAS
C37.32
          FRAC2.INT
                          2k
                               Arithmetic drill
C37.33
                               Arithmetic drill
C37.34
          FRAC3.BAS
                          3 k
          FRAC3.INT
                          2k
                               Arithmetic drill
C37.35
```

```
C37.37
          FRAC4.BAS
                          3k
                               Arithmetic drill
C37.37
          FRAC4.INT
                          2k
                               Arithmetic drill
C37.38
          FRACTION.BAS
                               Arithmetic drill
                          4k
C37.39
          FRACTION.INT
                               Arithmetic drill
                          3 k
C37.40
          GRADE.BAS
                          1k
                               Arith drill grading program
C37.41
          HEADER . BAS
                          1k
                               %Include for drill progs.
C37.42
          INTEGER.BAS
                               Arithmetic drill
                          4k
C37.43
                               Arithmetic drill
          INTEGER.INT
                          3k
C37.44
                         13 k
                               Accounting program
          JRNL.BAS
C37.45
          JRNL.INT
                          9k
                               Accounting program
C37.46
          MANPARTS.BAS
                          1k
                               Manufactured parts program
C37.47
                          3 k
                               Arithmetic Drill program
          NEWFRAC2.BAS
C37.48
                          1k
                               Parts list generator
          PARTS.BAS
C37.49
                               Change BASIC keywords
          PASSWORD.BAS
                          2k
C37.50
          PERCENT.BAS
                          3k
                               Arithmetic drill program
                          2k
                               Arithmetic drill program
C37.51
          PERCENT.INT
C37.52
          VOLUME.BAS
                          3k
                               Arithmetic drill program
C37.53
          VOLUME.INT
                          2k
                               Arithmetic drill program
C37.54
          WEIGHT.BAS
                          3k
                               Arithmetic drill program
C37.55
                          2k
                               Arithmetic drill program
          WEIGHT.INT
C37.56
          WHOLE.BAS
                          3k
                               Arithmetic drill program
C37.57
                          2k
          WHOLE.INT
                               Arithmetic dril program
          -CATALOG.038
C38
                          2k
                               Contents of CP/M Users Group Volume 38
C38
          ABSTRACT.038
                          5k
                               Abstracts on some of the files.
C38.01
          VBOOT.ASM
                          5k
                               Tarbell Boot for full sized system
                         28k
                               Compact BIOS for Tarbell system
C38.02
          BVIOS.ASM
C38.03
          DFOCO.ASM
                         56 k
                               Tarbell DD format and copy
C38.06
          DMSPATCH.ASM
                          1k
                               FAST for Digital Micro Sytems drives
C38.07
          DSCUSPAT.ASM
                          1 k
                               FAST patch for Discus 2D
C38.08
          FAST.ASM
                         20 k
                               Speed up transients via
C38.09
          FAST.COM
                          2k
                               Track & dir. buffering.
C38.10
                          3 k
          FASTNSTL.DOC
                               FAST installation DOC
C38.11
          FMAN.PRN
                         18k
                               FAST operations manual
C38.12
          MACRO.LIB
                         18k
                               Used by DFOCO
C38.13
                          1k
                               FAST patch for Micropolis
          MICROPAT.ASM
C38.14
          PACKUP.ASM
                         15k
                               Part of FAST
                          4k
C38.15
          REL.ASM
                               Relocation utility source
C38.16
          REL.UTL
                          2k
                               Relocation utility
                               DOC on relocation programs
C38.17
          RELCPM.DOC
                          2k
          RELCPM.SUB
                          1k
C38.18
                               SUBMIT file for relocations
C38.19
          RELED.SUB
                          1k
                               SUBMIT file for relocations
                          2k
C38.20
          RELHDR.ASM
                               Handler for REL.UTL
C3B.21
          RSPEED.ASM
                          3k
                               Determine how fast your disk reads
C38.22
          RSPEED.COM
                          1k
                               Determine how fast your disk reads
          SKEW2PAT.ASM
                          1 k
                               Skew table patch for FAST
C38.23
          SKEW3PAT.ASM
                          1k
C38.24
                               Skew table patch for FAST
C38.25
          SMAN.PRN
                          2k
                               Speed operations manual
          SPEED.COM
                          5k
                               CCP replacement with full trk blocking
C38.26
          UTL.LIB
                          3 k
C38.27
                               Macro library for reloc.
                          4k
                               Contents OF CP/M Users Group Volume 39
          -CATALOG.039
C39
          ABSTRACT.039
                          3 k
                               Abstracts on some of the files
C39
                               Source music score, BACH
          2PRTFJSB.MUS
                          2k
C39.01
                          4k
                               "Compiled" score
          2PRTFJSB.NOT
C39.02
          AIR.MUS
                          4k
                               Source music score
C39.03
          ALLEGRO.MUS
                          1k
                               Source music score
C39.04
          AMERICA.MUS
                          1k
                               Source music score
C39.05
          ARIA.MUS
                          3 k
                               Source music score
C39.06
          AWAVE.BAS
                          2k
                               Wave form generator
C39.07
          AWAVE.INT
                          2k
                               Wave form generator
C39.08
                          1k
          BOOGIE.MUS
                               Source music (diddling)
C39.09
          BOUREE.MUS
                          2k
                               Source music score
C39.10
          BREEZ.MUS
                          1k
                               Source music score
C39.11
          CALIOPE.MUS
                          2k
                               Source music (Super!)
C39.12
          CHOPS.MUS
                          1 k
                               Source music score
 ገባ 13
```

```
CHORALE.MUS
                             3 k
   C39.14
                                  Source music score
   C39.15
             DAISY.MUS
                             1k
                                  Source music score
   C39.16
             ENTER.MUS
                             1k
                                  Source music (Partial)
   C39.17
             FIX.SUB
                                  To remove (") from music
                             1k
   C39.18
                                  Source music score
            HUSTLE.MUS
                             3k
   C39.19
            IRISH.MUS
                             1k
                                  Source music score
   C39.20
             LAWRENCE MUS
                             2k
                                  Source music score (Arabia)
   C39.21
             LVBMIN.MUS
                                  Source music score
                             3 k
   C39,22
             LVBMIN.NOT
                             7 k
                                  Compiled score
   C39.23
            MAPLE.MUS
                             2k
                                  Source music score
   C39.24
            MARINE.MUS
                             1k
                                  Source music score
   C39.25
            MINWALZ.MUS
                                  Source music (L-uuuv it)
                             3 k
   C39.26
            MRIVER.MUS
                                  Source music score
                             1k
   C39.27
            MUSIC.COM
                             5k
                                  Executable code
   C39.28
            MUSIC.DOC
                            13 k
                                  Doc incl how to put on your micro
   C39.29
             MUSIC4.ASM
                            14k
                                  The music driver program
   C39.30
            MUSIC4.COM
                             2k
                                  COM of above
   C39.31
             MUSIC4.DOC
                             2k
                                  Doc on MUSIC4
   C39.32
             MUSPAT.DOC
                             3 k
                                  DOC on MUSPAT
   C39.33
            MUSPAT.HEX
                             7k
                                  HEX patch file
   C39.34
                             2k
            MYLIFE.MUS
                                  Source music score
   C39.35
             NOTES.BAS
                             3 k
                                  Tune constructing program
   C39.36
            NOTES.INT
                             2k
                                  Tune constructing program
   C39.37
            PIC.MUS
                             1k
                                  Source music score
   C39.38
            PRELUDE.MUS
                             3 k
                                  Source music score
   C39.39
                             1k
                                  Source music score
            PUR2MIN.MUS
   C39.40
            PUR2MIN.NOT
                             3 k
                                  Compiled score
                                  Remove (") from a file
            REMOV" . ASM
  C39.41
                             3k
7, C39.42
            REMOV".COM
                             1k
                                  Remove (") from a file
   C39.43
                             1k
                                  Source music score
            ROLLING.MUS
   C39.44
            SARABAND.MUS
                             2k
                                  Source music score
                             2k
   C39.45
            SMALL.MUS
                                  Source music score
   C39.46
            SPREAD.MUS
                             3k
                                  Source music (Interesting)
   C39.47
            STARWARS.MUS
                             2k
                                  Source music score
                                  Source music (a start...)
                             2k
   C39.48
            TINSOLD.MUS
                                  Source music (Terriffikk)
                             2k
   C39.49
            WALK.MUS
                             1k
   C39.50
            WAVES.MUS
                                  Source music score
            WHATI.MUS
                             3 k
                                  Source music score
   C39.51
                             3 k
            WIERD.MUS
                                  Source music score
   C39.52
            YANKEE.MUS
                             2k
                                  Source music score (good!)
   C39.53
                             2k
  C40
            -CATALOG.040
                                  Contents of CP/M Users Group Volume 40
            ABSTRACT.040
                             8k
                                  Abstract on some of the files
   C40
                             1k
            /.COM
                                  Quickie submit; Example:
   C40.01
            /.DOC
                             1k
                                  / ASM FOO.BBZ;LOAD B:FOO
  C40.02
                             1k
            ALLOC.COM
                                  Prints bit map of disk usage
  C40.03
                             1k
                                  Prints bit map of disk usage
   C40.04
            ALLOC.DOC
            BOOTER.ASM
                            37k
                                  Pascal boot for Tarbell & Delta
  C40.05
€ C40.06
                             1k
                                  Part of master cataloging sys.
            CAT.COM
            CAT2.COM
                             1k
                                  Part of master cataloging sys.
   C40.07
            CATALOG.DOC
                             5k
                                  Doc on master cataloging system
  C40.08
            CK-FIX.COM
                             1k
                                  File checksum program
  C40.09
            CK-FIX.DOC
                             1k
                                  File checksum program
  C40.10
            COMPARE.ASM
                             4k
                                  See if two files match exactly
  C40.11
            COMPARE.COM
                             2k
                                  See if two files match exactly
   C40.12
                                  Split screen VDM 2 file compare <MAC>
                             8k
            CV.ASM
  C40.13
            CV.COM
                             1 k
                                  Split screen VDM 2 file compare
  C40.14
            CV.DOC
                             1k
                                  Split screen VDM 2 file compare
  C40.15
                            1 k
            p.com
                                  Shows file differences between sessions
  C40,16
                             1k
            D.DOC
                                  Shows file differences between sessions
  C40.17
            DI.ASM
                            14k
                                  Directory listing program
  C40.18
                             2k
                                  Directory listing program
            DI .COM
   C40.19
                                  Disk utility: scan, patch, etc
                            26 k
            DU.ASM
   C40.20
                             4k
            DU.COM
                                  Disk utility: scan, patch, etc
   C40.21
                             1 k
                                  Disk utility: scan, patch, etc
   C40.22
            DU.DOC
            EJECT.ASM
                             1k
                                  "EJECT n" pages on CPM list dev
   C40.23
```

```
C40.24
          FMAP.COM
                               File map - standalone & part of catalog sys
                          1k
C40.25
                               File map - standalone & part of catalog sys
          FMAP.DOC
                          1 k
C40.26
          HEXDUMP.ASM
                          9k
                               Binary to Hex (Requires TDL Asm)
C40.27
          MAST.CAT
                               Sample master catalog
                          1k
C40.28
          MODEM4.ASM
                         40 k
                               File xfer, PMMI/Hayes, serial
C40.29
          MODEM4.DOC
                          7k
                               File xfer, PMMI/Hayes/serial
C40.30
          NSBOOT.ASM
                               Boot for National Semi 8221
                          3 k
C40.31
                               CBIOS for National Semi 8221
          NSCBIOS.ASM
                         12k
C40.32
                               Pascal boot loader for Tarbell
          PBOOT.ASM
                          3 k
C40.33
          PGEN.ASM
                               Boot mods for 512 long sectors
                          5k
C40.34
          PMMIBYE3.ASM
                         17k
                               Dial in remote console prog
C40.35
                          7 k
                               Sam Singer's PASCAL mods
          SPASCAL.DOC
C40.36
          UCAT.COM
                          2k
                               Update catalog program
C40.37
                               Write VDM lines to a file
          VDMSAVE.ASM
                          3 k
                               Contents of CP/M Volume 41
C41
          -CATALOG.041
                          2k
                               Abstracts on some files
C41
          ABSTRACT.041
                          7 k
C41.01
                         12k
                               Ham maillist maint. BASIC/E
          BMAINT.BAS
                               Ham Maillist report
C41.02
          BREPORT.BAS
                         12k
C41.03
          CHESS.COM
                         26 k
                               Cromemco Z-80 Fortran Chess
C41.04
                          2k
                               Doc on Chess program
          CHESS.DOC
C41.05
                         24k
                               Source in FORTRAN
          CHESS.FOR
                               Simple Morse code receiver
C41.06
                          2k
          CODE.BAS
C41.07
                          3 k
                               Doc on BMAINT, BREPORT, RTTY, etc
          HAMPROGS.DOC
                          2k
                               Print return labels
C41.08
          LABELS.BAS
C41.09
          MOONLOC.DOC
                          6k
                               Doc for Ham Radio Moon location pgrms
                          3 k
                               Moon Bounce program - Ham radio
C41.10
          MOONLOC1.BAS
C41.11
          MOONLOC2.BAS
                          3 k
                               Moon Bounce program - Ham radio
C41.12
          MOONLOC3.BAS
                          7k
                               Moon Bounce program - Ham radio
C41.13
                               Moon Bounce program - Ham radio
          MOONLOC5.BAS
                          5k
C41.14
                          8k
                               Morse send/receive program - Ham radio
          MORSE.ASM
C41.15
                          7k
          PONG.ASM
                               (3) PONG for the VDM (re-release CO6.09)
                               Morse code teacher - Ham radio
C41.16
          PRACTICE.ASM
                          8k
C41.17
          RANDTEX.BAS
                          2k
                               Generate text for C41.16 - Ham radio
C41.18
          RESIZE.DOC
                          2k
                               Part of ham radio maillist system
C41.19
                          5k
          RESIZE2.BAS
                               Part of ham radio maillist system
C41.20
          RESIZE3.BAS
                          5k
                               Part of ham radio maillist system
C41.21
          RTTY.ASM
                         26 k
                               RTTY send/receive program - Ham radio
C41.22
                         12k
          SSPLIB.FOR
                               Curve fit/simultaneous equation solver
C41.23
          TEACH.ASM
                         10k
                               Morse Code teaching program - Ham radio
          TTY.ASM
                          9k
                               Baudot-coded ASCII to ASCII - Ham radio
C41.24
C41.25
          TTYR.ASM
                          5k
                               Variation of C41.24 - Ham radio
          TTYR1.ASM
                          5k
                               Variation of C41.24 - Ham radio
C41.26
                          5k
C41.27
          TTYX.ASM
                               Xmit ASCII via conversion - Ham radio
C42
          -CATALOG.042
                          2k
                               Contents of CP/M Volume 42
C42
          ABSTRACT.042
                          6k
                               Abstracts on some of the files
          BIDI.ASM
                          9k
                               Bidirectional Diablo driver
C42.01
          CLKROM.ASM
                          3 k
                               Compu-time (R) routines
C42.02
          CT82.COM
                          1k
                               SWTPC CT82 initializer
C42.03
                               TDL Z-80 source for SWTPC CT82 init
C42.04
          CT82.Z80
                          6 k
                               TDL Z-80 Disassembler
          DIS.ASM
                         44k
C42.05
          DIS.DOC
C42.06
                          5k
                               Doc for TDL Z-80 disassembler
                               Put backspace into your BIOS
         HOW2BS.DOC
                          3 k
C42.07
         INIT.TEL
                          2k
                               ZTEL-CT82 routines
C42.08
                         17k
                               LIFE for VDM
C42.09
         LIFEB.ASM
C42.10
         LIFE8.COM
                          3 k
                               LIFE for VDM
         LIFE8.DOC
                          2k
                               LIFE for VDM
C42.11
                               Memory test(see MNEMONIC in dictionary)
         MNEMONIC.ASM
                        27 k
C42.12
                               BIOS for TEI CP/M
         MBIOS.ASM
                          7k
C42.13
         PTSRCNVT.ASM
                          4k
                               Proc Tech ALS-8 to CP/M file convert
C42.14
                          2k
                               Proc Tech ALS-8 to CP/M file convert
         PTSRCNVT.COM
C42.15
         PTSRCNVT.DOC
                          2k
                               Proc Tech ALS-8 to CP/M file convert
C42.16
                         13k
                               Words of wit and wisdom
         QUOTES.PRN
C42.17
         RESOURCE.COM
                         6 k
                               Conversational disassembler
C42.18
           -SOURCE DOC
                        26 k
                               Doc on conversational disassembler
```

```
C42.20
          START.ASM
                               Compucolor 8001 initializer
                          5k
C42.21
          START.COM
                          1 k
                               Compucolor 8001 initializer
C42.22
          T.ASM
                          2k
                               Print time on your console
C42.23
                               Print time on your console
          T.COM
                          1k
C42.24
                               Compu-time (R) routine
          TIME.ASM
                          3k
C42.25
          TIME.BAS
                          2k
                               Time display in MBASIC
C42.26
                               Time set/read in MBASIC
          TIMESET.BAS
                          5k
C42.27
         XT.ASM
                        25k
                               List to printer with time/date stamp
C42.28
          XT.COM
                          2k
                               List to printer with time/date stamp
C42.29
          XYZZY.COM
                          1k
                               [Type it and see]
C43
          -CATALOG.043
                          2k
                               CONTENTS OF CP/M VOL. 43
C43.01
                               Osborne A/P-A/R Accounting
          A/P-INFO.BAS
                          1k
                               Osborne A/P-A/R Accounting
C43.02
                          1 k
          A/POOO.BAS
                               Osborne A/P-A/R Accounting
C43.03
                         13 k
          A/PO10.BAS
C43.04
          A/PO2A.BAS
                          4k
                               Osborne A/P-A/R Accounting
C43.05
          A/PO2B.BAS
                          6 k
                               Osborne A/P-A/R Accounting
C43.06
                        12k
                               Osborne A/P-A/R Accounting
          A/PO30.BAS
          A/PO40.BAS
C43.07
                         11k
                               Osborne A/P-A/R Accounting
                               Osborne A/P-A/R Accounting
                         6 k
C43.08
          A/PO50.BAS
C43.09
                         7k
                               Osborne A/P-A/R Accounting
          A/PO60.BAS
                         11k
                               Osborne A/P-A/R Accounting
C43.10
          A/PO70.BAS
C43.11
          A/PO80.BAS
                         2k
                               Osborne A/P-A/R Accounting
C43.12
                         11k
                               Osborne A/P-A/R Accounting
          A/PO90.BAS
C43.13
          A/P110.BAS
                          5k
                               Osborne A/P-A/R Accounting
                               Osborne A/P-A/R Accounting
C43.14
          A/P120.BAS
                         10k
                               Osborne A/P-A/R Accounting
C43.15
                         2k
          A/R-INFO.BAS
C43.16
                               Osborne A/P-A/R Accounting
         A/R-INV.BAS
                         1k
C43.17
          A/RO10.BAS
                        12k
                               Osborne A/P-A/R Accounting
C43.18
         A/RO20.BAS
                          5k
                               Osborne A/P-A/R Accounting
C43.19
         A/RO3A.BAS
                          4k
                               Osborne A/P-A/R Accounting
C43.20
          A/RO3B.BAS
                        12k
                               Osborne A/P-A/R Accounting
C43.21
                         9k
                               Osborne A/P-A/R Accounting
         A/RO40.BAS
C43.22
         A/RO50.BAS
                        11k
                               Osborne A/P-A/R Accounting
C43.23
         A/ROSO.BAS
                          2k
                               Osborne A/P-A/R Accounting
C43.24
         A/RO70.BAS
                          9k
                               Osborne A/P-A/R Accounting
C43.25
         A/ROSO.BAS
                          5k
                               Osborne A/P-A/R Accounting
         A/RTAX.BAS
                         2k
C43.26
                               Osborne A/P-A/R Accounting
C43.27
         ABSTRACT.043
                         1 k
                               Abstracts of A/P-A/R Programs.
C43,28
          BINSEARC.BAS
                         1k
                               Part of A/P-A/R Package.
                        10k
C43.29
         CRTFM.BAS
                               Osborne A/P-A/R Accounting
C43.30
         CURSOR . BAS
                         2k
                               Osborne A/P-A/R Accounting
                         2k
C43.31
         FILEINIT.BAS
                               Osborne A/P-A/R Accounting
C43.32
         G/L-INFO.BAS
                          1k
                               Osborne A/P-A/R Accounting
         GENINFO.BAS
                         2k
                               Osborne A/P-A/R Accounting
C43.33
         READCUST.BAS
                         1k
                               Osborne A/P-A/R Accounting
C43.34
                               Osborne A/P-A/R Accounting
C43.35
         READINV.BAS
                         1k
C43.36
         READVEND.BAS
                         1k
                               Osborne A/P-A/R Accounting
         SUBS1.BAS
                         5k
C43.37
                               Osborne A/P-A/R Accounting
         WRITCUST.BAS
                         1k
                               Osborne A/P-A/R Accounting
C43.38
                               Osborne A/P-A/R Accounting
         WRITEINV.BAS
                         2k
C43.39
         WRITEVND.BAS
                         1 k 📑
C43.40
                               Osborne A/P-A/R Accounting
                               CONTENTS OF CP/M VOL. 44
         -CATALOG.044
                         3 k
C44
                         3 k
                               Comments on contents of volume
         ABSTRACT.044
C44.01
         ACCTFILE.BAS
                         2k
                               Part of Osborne General Ledger
C44.02
                               Part of Cunningham Ledger
         ANNTOT1.BAS
                          5k
C44.03
         ANNTOT1.INT
                               Part of Cunningham Ledger
                          3 k
C44.04
         BINSERCH.BAS
                          1k
                               Part of Osborne General Ledger
C44.05
         BUDGET1.BAS
                        12k
                               Part of Cunningham Budget
C44.06
         BUDGET1.DOC
                         2k
                               Part of Cunningham Budget
C44.07
                               Part of Cunningham Budget
                         6 k
         BUDGET1.INT
C44.08
         BUDGETCH.BAS
                          5k
                               Part of Cunningham Budget
C44.09
                          2k
                               Part of Cunningham Budget
         BUDGETCH.INT
C44.10
                               SUBMIT for compiling Osborne programs
         CBAS.SUB
                          1k
C44.11
             FM BAS
                         10k
                               CRT File Ma 140
                                                     *14.
```

```
C44.13
          CRTFM.INT
                          4k
                               CRT File maint Utility for G/L
C44.14
                               Part of Osborne General Ledger
          CURSOR.BAS
                          2k
C44.15
          EXP1980.TOT
                          2k
                               Data file from Cunningham Budget
C44.16
          EXPENSEO.JAN
                          1k
                               Data file from Cunningham Budget
C44.17
          FILEINIT.BAS
                          1k
                               Utility for Osborne General Ledger
C44.18
                          1k
                               Utility for Osborne G/L
          FILEINIT.INT
C44.19
          G/L.DOC
                          2k
                               Comments on Osborne General Ledger
C44.20
                          2k
                               Part of Osborne General Ledger
          G/L-INFO.BAS
C44.21
                               Osborne G/L Accounting
          G/LOOD.BAS
                          1k
C44.22
          G/LOOO.INT
                          2k
                               Osborne G/L Accounting
                               Osborne G/L Accounting
C44.23
          G/LO10.BAS
                          6 k
                               Osborne G/L Accounting
C44.24
          G/LO10.INT
                          4k
                               Osborne G/L Accounting
C44.25
          G/LO20.BAS
                          6 k
                               Osborne G/L Accounting
C44.26
          G/LO20.INT
                          2k
C44.27
          G/LO30.BAS
                               Osborne G/L Accounting
                          6 k
C44.28
          G/LO30.INT
                               Osborne G/L Accounting
                          5k
                          9k
                               Osborne G/L Accounting
C44.29
          G/LO40.BAS
                          6 k
                               Osborne G/L Accounting
C44.30
          G/LO40.INT
                               Osborne G/L Accounting
C44.31
          G/LO50.BAS
                         12k
C44.32
          G/LO50.INT
                          6 k
                               Osborne G/L Accounting
C44.33
                          5k
                               Osborne G/L Accounting
          G/LO70.BAS
C44.34
          G/LO70.INT
                          4k
                               Osborne G/L Accounting
                               Osborne G/L Accounting
C44.35
                          8k
          G/LOSO.BAS
                               Osborne G/L Accounting
C44.36
          G/LOBO.INT
                          5k
C44.37
          GENINFO.BAS
                          1k
                               Osborne G/L Accounting
C44.38
          LEDGER1.BAS
                          7k
                               Cunningham Ledger
C44.39
          LEDGER1.DOC
                          2k
                               Cunningham Ledger
C44.40
          LEDGER1.INT
                          3 k
                               Cunningham Ledger
C44.41
          POSTFILE.BAS
                          2k
                               Part of Osborne General Ledger
C44.42
          ROBO.BAS
                          3 k
                               Cunningham Math Game
          ROBO.DOC
C44.43
                          1k
                               Cunningham Math game
C44.44
          ROBO.INT
                          2k
                               Cunningham Math game
C44.45
          SUBS1.BAS
                          5k
                               Part of Osborne General Ledger
          TCGWOZ.TXT
C44.46
                          Ok
                               Collected Great Works of Zoso
C45.01
         -CATALOG.045
                          1k
                               CONTENTS OF CP/M VOL. 45
                          2k
                               Abstract of CP/M Vol. 45
C45.02
          ABSTRACT .045
C45.03
         P/R.SUB
                          1k
                               SUBMIT file for CBAS2 Payroll package
C45.04
          P/ROOO.BAS
                          2k
                               Menu Program for P/R
         P/R010.BAS
                          5k
C45.05
                               Osborne Payroll Accounting
C45.06
          P/RO20.BAS
                         13 k
                               Osborne Payroll Accounting
                          3 k
C45,07
         P/RO30.BAS
                               Osborne Payroll Accounting
C45.08
         P/RO40.BAS
                          2k
                               Osborne Payroll Accounting
C45.09
          P/RO50.BAS
                         10k
                               Osborne Payroll
                                                Accounting
C45.10
         P/ROGA.BAS
                          4k
                               Osborne Payroll Accounting
C45.11
         P/RO6B.BAS
                          8k
                               Osborne Payroll Accounting
         P/RO70.BAS
                          4k
C45.12
                               Osborne Payroll Accounting
         P/RO80.BAS
                          2k
C45.13
                               Osborne Payroll Accounting
         P/R090.BAS
                               Osborne Payroll Accounting
C45.14
                          8k
C45.15
         P/R100.BAS
                          9k
                               Osborne Payroll Accounting
C45.16
         P/R110.BAS
                          8k
                               Osborne Payroll Accounting
         P/R120.BAS
                          3 k
                               Osborne Payroll Accounting
C45.17
         P/R130.BAS
                          4k
                               Osborne Payroll Accounting
C45.18
         P/R140.BAS
                          6 k
                               Osborne Payroll Accounting
C45.19
         P/R150.BAS
                          3 k
                               Osborne Payroll Accounting
C45.20
                               Osborne Payroll Accounting
C45.21
         P/R160.BAS
                          2k
         P/R170.BAS
                          3 k
                               Osborne Payroll Accounting
C45.22
                               Osborne Payroll Accounting
         P/R180.BAS
                          8k
C45.23
         P/R190.BAS
                          4k
                               Osborne Payroll Accounting
C45.24
                          7k
                               Osborne Payroll Accounting
         P/R200.BAS
C45.25
         P/R210.BAS
                          9k
                               Osborne Payroll Accounting
C45.26
                          6k
         P/R220.BAS
                               Osborne Payroll Accounting
C45.27
         P/R230.BAS
                          5k
                               Osborne Payroll Accounting
C45.28
         P/R240.BAS
                          9k
                               Osborne Payroll Accounting
C45.29
                          3 k
C45.30
         P/R250.BAS
                               Osborne Payroll Accounting
         P/R260.BAS
                          3 k
                               Osborne Parroll Accounting
C45.31
```

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P/R270.BAS
                                Osborne Payroll Accounting
 C45.32
                           6k
                                Osborne Payroll Accounting
 C45.33
           P/R280.BAS
                          15k
                                Osborne Payroll Accounting
 C45.34
           P/R290.BAS
                           4k
                                Osborne Payroll Accounting
 C45.35
                          10k
           P/R291.BAS
                                Osborne Payroll Accounting
 C45.36
                          11k
           P/R300.BAS
                                Osborne Payroll Accounting
 C45.37
                           5k
           P/R310.BAS
                                Osborne Payroll Accounting
 C45.38
                           3 k
           P/R320.BAS
                                Osborne Payroll Accounting
 C45.39
                           7k
           P/R321.BAS
                                Osborne Payroll Accounting
 C45.40
           P/R330.BAS
                           6 k
                                Osborne Payroll Accounting
 C45.41
           P/R340.BAS
                           3 k
                                CONTENTS OF CP/M VOL. 46
 C46
           -CATALOG.046
                           2k
                                Volume abstracts
                          11k
 C46.01
           ABSTRACT.046
                                CPM to ICOM FDOS II transfer
                          11k
 C46.02
           CPM-FDOS.ASM
                                Make CPMUG disk labels
                          17k
 C46.03
           CPMLABEL.BAS
                                (Was MBASIC compile of CPMLABEL.BAS)
           <<deleted>>
                          18k
 C46.04
                                Make CPMUG disk labels
           CPMLABEL.DOC
                           5k
 C46.05
                           8k
                                Full 16 bit CRC of a file
 C46.06
           CRCK3.ASM
                                Full 16 bit CRC of a file
                           1 k
           CRCK3.COM
 C46.07
                                Disk dump/patch, for many controllers
           DU-8/12.ASM
                          16k
 C46.08
                                Later version of C40.20 (1D only)
                          29k
 C46.09
           DU-V61.ASM
                                Doc. on CP/M directory format
                           2k
 C46.10
           DU/MAP.DOC
                                ICOM FDOS II to CP/M transfer
 C46.11
           FDOS-CPM.ASM
                           6 k
                          10k
                                Fancy directory list program,
 C46.12
           MDIR8/17.ASM
                           1k
                                CP/M 1.4 (or 2.X, all users)
 C46.13
           MDIR8/17.COM
                                Type multiple files with disk buffering
                           6 k
 C46.14
           MLIST3.ASM
                                Send/Rcv to memory via modem
 C46.15
           PLINK823.ASM
                          20 k
                                Remote console program (C40.34)
 C46.16
           PMMIBYE5.ASM
                          22k
                           3 k
                                Remote console program (C40.34)
 C46.17
           PMMIBYE5.DOC
                           2k
                                Convert Proc Tech to CP/M ASM
 C46.18
           PTSRCNVT.COM
                                Convert Proc Tech to CP/M ASM
                           2k
 C46.19
           PTSRCNVT.DOC
                           7k
                                Disassembler to TDL mnemonics
 C46.20
           RETDL.COM
                          13 k
                                Maps system memory/port usage
 C46.21
           SURVEY3.ASM
 C46.22
           SURVEY3.COM
                           1k
                                Maps system memory/port usage
           XD-7/4.ASM
                          20 k
                                Fancy directory list program
 C46.23
                           2k
                                Fancy directory list program
           XD-7/4.COM
 C46.24
                                CONTENTS OF CP/M VOL. 47
                           2k
 C47
           -CATALOG.047
 C47.01
          ABSTRACT.047
                           7 k
                                Abstracts and reviews.
           BMAP7/11.ASM
                          10k
                                Bit Map program.
 C47.02
                                Revision of Tarbell's COPY.ASM
                          22k
 C47.03
           COPYFAST.ASM
                           2k
                                Revision of Tarbell's COPY.ASM
           COPYFAST.COM
 C47.04
                                Bob Van Valzah's Modem program
                          18k
 C47.05
           CYBER.ASM
                                Modem program with autodial for PMMI
           DIAL6/23.ASM
                          22k
 C47.06
                                Modem program with autodial for PMMI
                         2 k
 C47.07
           DIAL6/23.DOC
 C47.08
           DIRS9/8.ASM
                           8k
                                Sorted directory program.
           FLIP3.ASM
                           3 k
                                Flips Answer/Originate mode w/BYE.COM
 C47.09
           MODEM.LIB
                          14k
                                Maclib library for MODEM7.
 C47.10
                          43 k
                                Ward's "universal" modem pgrm
 C47.11
           MODEM7.ASM
                                Ward's "universal" modem pgrm
 C47.12
           MODEM7.COM
                           8k
                                Ward's "universal" modem pgrm
∨ C47.13
           MODEM7.DOC
                          16k
           MODEM7.SET
                           3 k
                                Instructions for patching COM file
 C47.14
 C47.15
           PROM.ASM
                          13 k
                                Promburner program for the SSM PB1.
           UCOPY.ASM
                           7 k
                                Bob Van Valzah's version of COPY
 C47.16
           -CATALOG.048
                           2k
                                Catalog of CPMUG Volume 048
 C48
           ABSTRACT.048
                           6 k
                                Abstracts of the programs
 C48
           BDS-C.DOC
                          17 k
                                BDS-C users manual (*)
 C48.01
           BDSCIO.H
                           7k
                                The standard library
 C48.02
           BUGS.C
                           8k
                                Makes things crawl on your screen <H>
 C48.03
                                Makes things craw! on your screen <H>
                          11k
           BUGS.COM
 C48.04
           HLIFE.C
                                H19/H89 version of LIFE.C, C48.09
                           9k
 C48.05
           HLIFE.COM
                           8k
                                H19/H89 version of LIFE.C, C48.09
 C48.06
           HSTONE.C
                                "Awari" game program - <H>
                          13k
 C48.07
                                "Awari" game program - <H>
           HSTONE.COM
                          12k
 C48.08
                           9k
                                Good implementation of Conway's LIFE
           LIFE.C
 C48.09
```

```
C48.10
                               Good implementation of Conway's LIFE
          LIFE.COM
                          8k
C48.11
         MM.C
                          5k
                               Mastermind interesting guessing game
C48.12
          MM.COM
                          7k
                               Mastermind interesting guessing game
C48.13
          OTHELLO.C
                         11k
                               Game program
C48.14
          OTHELLO.COM
                         12k
                               Game program
C48.15
                               "Polish Pong" bounce the ball <H>
          PPONG.C
                          7k
C48.16
          PPONG.COM
                               "Polish Pong" bounce the ball <H>
                          7 k
C48.17
          PRESSUP.C
                          8k
                               Game program
C48.18
          PRESSUP.COM
                          8k
                               Game program
C48.19
          R2.MAP
                          1 k
                               Map for rally game <H>
C48.20
          RALLY.C
                         10k
                               Road rally arcade game <H>
C48.21
          RALLY.COM
                         10k
                               Object of C48.20 but hard-coded I/O needed
          RALLY.MAP
                          2k
                               Another map for C48.21 <H>
C48.22
                               "Awari" game with computer opponent
                         10k
C48.23
          STONE.C
                               "Awari" game with computer opponent
          STONE.COM
                          9k
C48.24
                               Turn multiple spaces into CP/M tabs
C48.25
          TABIFY.C
                          2k
                               Turn miltiple spaces into CP/M tabs
C48.26
          TABIFY.COM
                          6 k
                          7 k
                               Tic-Tac-Toe that tests for best move
C48.27
          TTT.C
                               Tic-Tac-Toe that tests for best move
          TTT.COM
                          6 k
C48.28
C48.29
          VOLUME 48. DOC
                          3 k
                               Leor's own comments
          -CATALOG.049
                          3 k
                               CONTENTS OF CP/M VOL.
C49
                               Run CP/M 2.0+ on CDOS system
C49.01
          4FDCBIOS.DOC
                          4k
C49.02
                          2k
                               Run CP/M 2.0+ on CDOS system
          4FDCBIOS.HEX
C49.03
          4FDCBIOS.Z80
                         13k
                               Run CP/M 2.0+ on CDOS system
C49.04
          4FDCBOOT.HEX
                          1 k
                               Run CP/M 2.0+ on CDOS system
                         2k
                               Run CP/M 2.0+ on CDOS system
C49.05
          4FDCBOOT.Z80
C49.06
         ABSTRACT.049
                         11k
                               Abstracts of the files on this disk
C49.07
         ASMDEF . RAT
                          1k
                               Used by LCAT, part of RATFOR
                               FORTRAN Astronomy program
C49.08
         ASTRO.FOR
                          6 k
C49.09
         CDOS.DOC
                        10k
                               Comments on CDOS features
C49.10
          CDOSCOPY.COM
                         2k
                               Disk copy pgrm for CDOS systems
C49.11
                         2k
         CDOSCOPY.DOC
                               Disk copy pgrm for CDOS systems
C49.12
         CDOSCOPY.HEX
                          4k
                               Disk copy pgrm for CDOS systems
C49.13
         CDOSCOPY.PRN
                        26 k
                               Disk copy pgrm for CDOS systems
                         12k
                               Disk copy pgrm for CDOS systems
C49.14
         CDOSCOPY.Z80
C49.15
         CONSTS.RAT
                          1 k
                               Definitions of RATFOR constants
                          1k
C49.16
         F77.DOC
                               FORTRAN 77 Documentation
C49.17
         F77DEF.RAT
                          1 k
                               FORTRAN 77 Functions
C49.18
         F77LIB.FOR
                          2k
                               Definitions of intrinsic FORTRAN 77
                          3k
         FILTER.Z80
                               Emulate CDOS under standard CP/M
C49.19
C49.20
         FILTER HEX
                          1k
                               Emulate CDOS under standard CP/M
C49.21
         FILTER2.Z80
                          6 k
                               Modified version of FILTER C49.19
         FILTER2.HEX
                               Modified version of FILTER C49.19
C49.22
                          1 k
                          2k
         INDEX.ZBD
                               RATFOR Subroutine
C49.23
         INDEXT.FOR
                          1k
                               Test for INDEX.Z80
C49.24
                          1k
                               Used by LCAT (RATFOR)
C49.25
         IOER.Z80
         LCAT.DOC
                          1k
C49.26
                               Concatenate Microsoft .REL files
C49.27
         LCAT . RAT
                          3 k
                               Concatenate Microsoft .REL files
         MINV.DOC
                          2k
                               Matrix Inversion Determinant Calculator
C49.28
         MINV.FOR
                          3k
                               Calculator, FORTRAN source code
C49.29
                               Calculator, RATFOR source code
         MINV.RAT
                          3 k
C49.30
         RATCOMNS.RAT
                          2k
                               Used by RATFOR
C49.31
                          3 k
C49.32
         RATFOR.DOC
                               Documentation of RATFOR
         RATFOR.FOR
                         40 k
                               FORTRAN source code for RATFOR
C49.33
         RATFOR . RAT
                        25k
                               RATFOR source code for RATFOR
C49.34
         RATFOR . REL
                        17k
                               Microsoft REL file w/o library routines
C49.35
         READLB.Z80
                          1k
                               Subroutine for SCOPY (RATFOR)
C49.36
                          1k
         RFG.CMD
                               CDOS equivelent of a submit file (^=$)
C49.37
         SCOPY.DOC
                          1k
                               Direct Disk I/O (RATFOR)
C49.38
         SCOPY.FOR
                          2k
                               Direct Disk I/O FORTRAN source code
C49.39
         SORTI.DOC
                          1k
                               Quicksort program (RATFOR)
C49.40
         SORTI.FOR
                          2k
                               Quicksort FORTRAN Source code
C49.41
         SORTI.RAT
                          3 k
                               Quicksort RATFOR Source code
C49.42
         TRNSLT.Z80
                          1k
                               Used by RATFOR
C49.43
```

```
Contents of CPMUG Volume 50
C50
          -CATALOG.050
                          3 k
C50
                          4k
                               Abstracts of files
         ABSTRACT.050
C50.01
         COMPARE.COM
                               File compare utility C40.12
                          2k
C50.02
         CPMDIR.C
                          2k
                               V7 UNIX C pgrm to print CP/M directory
C50.03
         DISK.DOC
                               Original Vol 50 doc file
                          3 k
C50.04
                               Prints "eight queens problem" solutions
         EQ.PAS
                          2 k
C50.05
         FROMCPM.C
                               V7 UNIX C program to read a CP/M file
                          5k
C50.06
         FWD.PAS
                               Illustrates fwd procedure declarations
                          1k
C50.07
         HW5.PAS
                         15k
                               Builds an optimal binary search tree
C50.08
         HW5DATA
                          1k
                               Sample data for HW5.PAS
         PASYNTAX.DOC
C50.09
                          6k
                               Syntax graphs for Pascal compiler
C50.10
         PC.SUB
                          1k
                               Submit file to compile a Pascal program
C50.11
         PFET.COM
                               P-code to 8080 translator
                         7 k
C50.12
         PFET.PAS
                               P-code to 8080 translator
                         11k
         PHONE.C
C50.13
                          1 k
                               Phone number to word translator
                               Sample data for PLAYKAL.PAS below
C50.14
         PLAYDATA
                         1k
C50.15
         PLAYKAL.PAS
                         13 k
                               Pascal game of Kalah
C50.16
         POPS.DOC
                         2k
                               P-codes used by the compiler
         POWTWO.PAS
                               Print negative powers of two
C50.17
                         1 k
C50.18
         PPC.COM
                         16 k
                               Pascal to p-code compiler
C50.19
         PPC.DOC
                         10k
                               Users manual for Pascal compiler
C50.20
         PPC.PAS
                               Source of Pascal compiler
                        26 k
C50.21
         PSTACK.DOC
                          2k
                               Doc on the run time p-machine stack
                         3 k
C50.22
         REGEN.DOC
                               How to modify and compile the compiler
C50.23
         RTP.ASM
                         11k
                               Source for the run time package
C50.24
         RTP.COM
                          2k
                               Object of run time package
C50.25
         SPEED.COM
                          5k
                               Disk buffering to gain speed
C50.26
         SPEED2.COM
                          5k
                               Disk buffering for 2.x systems
C50.27
                               Print powers of two Stirling numbers
         STIRLING.PAS
                          1k
C50.28
         TESTER.PAS
                          4k
                               Tests functionality of Pascal compiler
C50.29
         VALIDATE.SUB
                          1k
                               File to test your compiler
C50.30
         RTP.ASM
                        11k
                               Source for run-time package
         RTP.COM
                         2k
C50.31
                               Object for run-time package
C50.32
         STIRLING.PAS
                          1k
                               Prints a table of Stirling Numbers
C50.33
         TESTER . PAS
                          4k
                               Tests functionality of PPC
C50.34
         VALIDATE.SUB
                          1k
                               Submit file to assure a "fertile" computer
C51
         -CATALOG.051
                         3 k
                               CONTENTS OF CP/M VOL. 51
                         2k
C51.01
         ABSTRACT.051
                               Overview of volume
         ALX.S2M
                        16k
                               Assembly Language Extension macros
C51.02
                         3 k
C51.03
         ALX-.DOC
                               Doc on ALX
         ALXTEST.ALX
C51.04
                         3 k
                               Sample macros to test ALX
         CIO.ALX
                          4k
                               Console I/O routines in ALX
C51.05
C51.06
         CRCK.COM
                         2k
                               Keith Petersen pgrm to CRC check files
                          1k
C51.07
         CRCKLIST.CRC
                               Contains the CRCs for all files on disk
                         2k
C51.08
         DEMO.S2M
                               Interactive STAGE2 demo macros
                               Disk I/O for STAGE2 processor
         DISKIO2.SRC
                        17k
C51.09
C51.10
         DISKIO2-.DOC
                         6 k
                               DOC on STAGE2 Disk I/O
         FLD1.DAT
                          5k
                               Sample data for FLUB test
C51.11
                          4k
                               Sample data for FLUB test
C51.12
         FLD2.DAT
         FLT1.FLB
                        13k
                               Sample program for FLUB test
C51.13
                        11k
C51.14
         FLT2.FLB
                               Sample program for FLUB test
                          1 k
                               Submit file for FLT1, FLT2, STG2
         FLUB$.SUB
C51.15
                               Macros to turn FLUB into 8080 asm
                          4k
C51.16
         FLUB8080.S2M
         HELP.DOC
                         3 k
                               First-timer's "to do" list
C51.17
         IMPL.DOC
                          2k
                               Notes on implementing STAGE2
C51.18
         INTERACT.S2M
                         2k
                               Another macro demo
C51.19
         INTRO.DOC
                        22k
                               Sufficient info to "read" STAGE2 macros
C51.20
         IOOP$.SUB
                         1k
                               Submit for macro pass + asm of above
C51.22
                        16k
                               I/O processor 8080 source
         IOOP.SRC
C51.21
                         1k
                               Another macro demo
         MEMORY. INP
C51.23
         ST2T.DAT
                         2k
                               STAGE2 file
C51.24
         STAGE2.COM
                        12k
                               The executable macro processor itself
C51.25
                               Source for STAGE2 in FLUB code
         STG2.FLB
                         48 k
C51.26
                               STAGE2 support routines
         STG2MATH.ASM
                          5k
C51.27
         STG2SUP.ASM
                          5k
                               STAGE2 file
```

```
Sample 8080 terminal pgrm w/ALX macros
C51.30
          TERMSUP.ASM
                          3 k
                               Subroutines for TERM.ALX
C51.31
         USE.DOC
                          2k
                               How to execute STAGE2
C51.32
         VDB.ALX
                          6k
                               ALX TDL video driver -a "state machine"
C51.33
         VOLUME51.DOC
                          5k
                               Dick Curtiss' excellent documentation
C52
         -CATALOG.052
                          2k
                               CONTENTS OF CP/M VOL. 52
C52
         ABSTRACT.052
                               Abstracts of files on this disk
                          3k
C52
         CRCK.COM
                               CRC program (see abstracts)
                          2k
C52.01
         BATCH.1
                         12k
                               SIL80 source for BATCH
C52.02
         BATCH.3
                         10k
                               SIL80 source for BATCH
C52.03
         BATCH.COM
                          2k
                               Batch (limited capability file)
C52.04
         BATCH.CTL
                          1k
                               Control table for batch
C52.05
         BATCH.HEX
                          5k
                               Batch hex file
C52.06
         BATCH.RM
                         35k
                               Batch Reference Manual (.DOC)
C52.07
          BATCH.SYM
                         21 k
                               Batch Symbol Table
         CPYFST35.ABS
C52.08
                          2k
                               Chuck's comments on Copyfast
         CPYFST35.ASM
                         26 k
                               Source code for COPYFAST
C52.09
C52.10
         CPYFST35.DOC
                         28k
                               Documentation for COPYFAST
C52.11
         CPYFST3F.COM
                          2k
                               Fast copy program for fast disks
         CPYFST3M.COM
                          2k
C52.12
                               Fast copy program for medium disks
C52.13
         CPYFST3S.COM
                               Fast copy program for slow disks
                          2k
C52.14
         CRCKLIST.CRC
                          1k
                               CRC list of programs on this disk
C52.15
         EXAMPLE.BAT
                          2k
                               Sample BATCH file
C52.16
         VARBATCH.1
                         23 k
                               SIL80 source for VARBATCH
C52.17
         VARBATCH.3
                         10k
                               SIL80 source for VARBATCH
C52.18
         VARBATCH.COM
                          3 k
                               Object of VARBATCH
C52.19
         VARBATCH.CTL
                          1k
                               Control table of VARBATCH
C52.20
                          7k
                               Hex file of VARBATCH
         VARBATCH.HEX
C52.21
         VARBATCH.SYM
                         29k
                               Symbol table of VARBATCH
C53
         -CATALOG.053
                          2k
                               CONTENTS OF CP/M VOL. 053
C53.01
         ADVCOMP.SUB
                          1k
                               BDS-C Adventure game
C53.02
         ADVENT.C
                          5k
                               BDS-C Adventure game
                               BDS-C Adventure game
C53.03
         ADVENT.COM
                         10k
                               BDS-C Adventure game
C53.04
                          5k
         ADVENT.CRL
                               BDS-C Adventure game
C53.05
         ADVENT.H
                          6 k
                               BDS-C Adventure game
C53.06
         ADVENT1.DAT
                         18k
                               BDS-C Adventure game
C53.07
         ADVENT2.DAT
                          7k
                               BDS-C Adventure game
C53.08
         ADVENT3.DAT
                          7 k
                               BDS-C Adventure game
         ADVENT4.DAT
                          4k
C53.09
                               BDS-C Adventure game
C53.10
         ADVENT5.DAT
                          6k
                               BDS-C Adventure game
         ADVENT6.DAT
                         18k
C53.11
C53.12
         ADVLINK.SUB
                          1 k
                               BDS-C Adventure game
                          2k
                               BDS-C Adventure game
C53.13
         CATALOG.DOC
                               BDS-C Adventure game
                          7 k
C53.14
         DATABASE.C
                               BDS-C Adventure game
         DATABASE CRL
                          5k
C53.15
                               BDS-C Adventure game
C53.16
         EADVENT.C
                          1 k
         EADVENT.COM
                         24k
                               BDS-C Adventure game
C53.17
                               BDS-C Adventure game
         EADVENT.CRL
                          1k
C53.18
                               BDS-C Adventure game
C53.19
         ENGLISH.C
                          3k
                               BDS-C Adventure game
C53.20
         ENGLISH.CRL
                          2k
                               BDS-C Adventure game
         ENVIRON.DOC
                          3 k
C53.21
                               BDS-C Adventure game
C53.22
         ITVERB.C
                          4k
                               BDS-C Adventure game
         ITVERB.CRL
                          3k
C53.23
                          1k
                               BDS-C Adventure game
         MKADVENT.SUB
C53.24
                          1k
                               BDS-C Adventure game
         MKEADVEN.SUB
C53.25
                               BDS-C Adventure game
         MKSAVEAD.SUB
                          1k
C53.26
         READ.ME
                          1k
                               BDS-C Adventure game
C53.27
                               BDS-C Adventure game
                          1k
         SAVEADV.C
C53.28
                          7k
                               BDS-C Adventure game
         SAVEADV.COM
C53.29
                               BDS-C Adventure game
         SAVEADV.CRL
                          2k
C53.30
         TURN.C
                         14k
                               BDS-C Adventure game
C53.31
         TURN.CRL
                         10k
                               BDS-C Adventure game
C53.32
                               BDS-C Adventure game
C53.33
          VERB.C
                         13 k
```

C51.29

TERM.ALX

VERB.CRL

C53.34

8 k

BDS-C Adventure rame

8k

```
C54
                               Contents of CP/M Users Group Volume 54
          -CATALOG.054
                          5k
C54
          ABSTRACT.054
                         21k
                               Abstracts of programs
C54
                               CRC filecheck program
          CRCK.COM
                          2k
                          3 k
                               List of CRC's of files
C54
          CRCKLIST.054
C54.01
          1CHECK.BAS
                          3k
                               Solitaire checker puzzle
C54.02
          ALFABET2.BAS
                          2k
                               Interactive alphabetizing, expanded
                               Original bugged version of C52.02
          ALFABET1.BAS
C54.03
                          1k
C54.04
                          2k
                               Add & subtract for elememtary students
          ARITH.BAS
C54.05
          BIOCAL.BAS
                          4k
                               Biorythmic calendar (Bugs)
          BLKJAC.BAS
                          8k
                               Blackiack (21) game
C54.06
C54.07
          BOMBER.BAS
                          3k
                               WW2 Bomber game
          BOUNCE.BAS
                          2k
                               Plots a bouncing ball
C54.08
                          7k
                               'Draw Bugs faster than your computer'
C54.09
          BUG.BAS
C54.10
          BULCOW.BAS
                          2k
                               Buggy program, number guessing game
                               Draws a 'bunny' on your CRT
C54.11
          BUNNY.BAS
                          7k
                               Selects a list of 'buzzwords'
          BUZZWD.BAS
                          3k
C54.12
C54.13
          CHASE BAS
                          4k
                               High Voltage survival game
C54.14
          CHASE2.BAS
                          6k
                               Construct & maneuver in a maze
          CHOMP.BAS
                               Eat pieces of a cookie, last loses
C54.15
                          3 k
C54.16
          CRAPS.BAS
                          3 k
                               Standard Nevada table rules
                               Get through the cube and win a bet
         CUBE.BAS
                          5k
C54.17
         DEFUSE.BAS
                               Find and defuse the bomb before...
C54.18
                          3k
                          1k
C54.19
         DIAMND.BAS
                               Fills screen with diamonds
C54.20
         DRAW.BAS
                          3k
                               Buggy program -- see abstract
C54.21
                          2k
                               'How to mix drinks', see abstract
         DRINKS.BAS
C54.22
         FISHING.BAS
                          3 k
                               A mini-adventure game
                          9k
C54.23
         FOOTBL.BAS
                               Standard rules, except no penalties
                          2k
                               Fraction mathematics
C54.24
         FRACT.BAS
C54.25
         GRAFIT.BAS
                          1k
                               Some kind of student plotting program
                          2k
C54.26
         GUNNER . BAS
                               Fire a field artillery weapon, bugs
C54.27
         HOCKEY.BAS
                          6 k
                               For hockey fans
                          4k
                               Place your bets on the horse races
C54.28
         HORSES.BAS
C54.29
         INTEREST.BAS
                          1k
                               Simple and compound interest calculator
                         10k
                               Your chance to be the boss!
C54.30
         KING.BAS
                          2k
                               CAI Childrens Literature Onterest calculator
C54.31
         LITQZ.BAS
C54.30
         KING.BAS
                         10k
                               Your chance to be the boss!
C54.31
         LITQZ.BAS
                          2k
                               CAI Childrens Literature Quiz
         MATH.BAS
                          2k
                               Math test or quiz?
C54.32
         MUGWMP.BAS
                          2k
                               Find 4 mugwmps hiding in a 10 x 10 grid
C54.33
                          3k
C54,34
         PICTUR.BAS
                               Draws your name and picture???
         POET.BAS
                          2k
C54.35
                               Produces verse from random phrases
                          8k
C54.36
         POKER.BAS
                               Play poker with the computer
C54.37
         PRIME.BAS
                          1 k
                               Prints prime numbers from 1 to 10,000
                          5k
                               deleted
C54.38
         QUBIC.BAS
                          7k
                               3D Tic tac toe on a 4X4 cube
C54.39
         REVRSE.BAS
                          3 k
                               Reverse a number list??
C54.40
                          4k
                               A lunar lander with a bad fuel gauge
         ROCKET.BAS
C54.41
                               Lunar lander, graphs your descent
C54.42
         ROCKT1.BAS
                          3k
         SNOOPY.BAS
                          4k
                               SNOOPY picture with your name under it
C54.43
         SPORTS . BAS
                          3k
                               CAI w/multiple choice sports questions
C54.44
         STARS.BAS
                          2k
                               Number Guessing Game by Bob Albrecht
C54.45
         STOCK . BAS
                          8k
                               Stock Market simulation program
C54.46
         TAKEAWAY BAS
                          2k
                               Multi-player game
C54,47
                          5k
         TDRILL.BAS
                               Typing drill using data lists
C54.48
                          4k
                               CAI drill on tennis (ala SPORTS.BAS)
         TENNIS.BAS
C54.49
                          2k
         TEXT.BAS
                               Information pgrm about these programs
C54.50
         TICTAC.BAS
                          5k
                               Expanded TTT game on a 9 X 9 grid
C54.51
                          2k
         TRAP.BAS
                               Guess the mystery number game
C54.52
         TTTOE.BAS
                          3 k
                               Standard Tic tac toe game
C54.53
         TVPLOT.BAS
                          3 k
                               Produces various funny TV plots
C54.54
         TYPING.BAS
                          1k
                               Typing drill with a random generator
C54.55
         WEKDAY. BAS
                          4k
                               Day of the week that you were born
C54.56
         WISHES.BAS
                          3 k
                               Wish poem writing program for children
C54.57
```

5015

```
C56
          <see SO2>
C57
          <see S11>
C58
          <see SO4>
C59
          <see SO5>
080
          (see SO6)
C61
          (see SO7>
          <see SOB>
C62
          (see SO9)
C63
          (see S10)
C64
          <see S13>
C65
C66
          <see S14>
C67
          <see S15>
C68
          <see S16>
C69
          <see S17>
C70
          <see $18>
C71
          <see ZO1>
C72
           (see ZO2)
C73
           (see ZO3)
C74
           <see ZO4>
 C75
           <see Z05>
 C76
           <see ZO6>
 C77
           <see ZO7>
           -CATALOG.078
                           3 K
                                 CONTENTS OF CP/M VOL. 078
 C78
                           8K
                                 Abstracts of programs
           ABSTRACT.078
 C78
                           5K
 C78
           U-G-FORM.LIB
                                 Users Group submission form
                           8K
 C78
           VOLUME78.DOC
                                 DOC on programs w/no other documentation
           /.ASM
                           4K
 C78.01
                                 Quickie SUBMIT from command line
           /.COM
                           1 K
                                 Quickie SUBMIT from command line
 C78.02
           /DUP.COM
                           1 K
                                 Same as /.ASM but w/second copy of $$$.SUB
 C78.03
                          10K
           BMAPORIG.ASM
                                 Prints 2.2 disk allocation bit map
 C78.04
           BMAPORIG.COM
                           1 K
                                 Prints 2.2 disk allocation bit map
 C78.05
                           2 K
                                 to check files on this disk
           CRCK.COM
 C78.06
           CRCKLIST.078
                           2K
                                 File of all file CRC's
 C78.07
           D.COM
                           3 K
 C78.08
                                 Type D to see if files have been lost
                                 Disk Utility for the H/Z-89
           DUH.COM
                          10K
 C78.09
           DUH.Z80
                           3 K
                                 Source for DU relocator
 C78.10
           DUU.ASM
                          51 K
                                 Disk Utility Universal, works
 C78.11
           DUU.COM
                           7 K
                                 with 1.4 and 2.2
 C78.12
           DUU.DOC
                           14K
                                 DOC on above
 C78.13
                                 SSM PB1 PROM prog. rtn
           EPROM.ASM
                            8 K
 C78.14
           EPROM.DOC
                            2K
 C78.15
                                 DOC on above
           FMAP.COM
                                 File map w/1024 dir entries & CP/M 1.4 or 2.2
                            4K
 C78.16
                                           m a . . a CIAMT
            TF COM
                            1 K
```

```
C78.18
           LPRINT.ASM
                                 Paginated file output to LIST
                           2K
 C78.19
           MAKE.ASM
                           12K
                                 Make a file a different user #
 C78.20
           NOTATE ASM
                           3 K
                                 Add comments to an .ASM file
 C78.21
           NOTATE.COM
                           1 K
                                 .COM of above
 C78.22
                                 Patch CP/M to show user: "AO>"
           PATCH.ASM
                           3 K
 C78.23
                                 Repeat a SUBMIT "nn" times
           REPEAT.COM
                           1 K
 C78.24
           SDCOPY.ASM
                          10K
                                 Single-disk file copy program
 C78.25
                                 Single-disk file copy program
           SDCOPY.COM
                           1 K
 C78.26
                           3 K
                                 Doc for single disk file copy program
           SDCOPY.DOC
 C78.27
           SWAPCOPY.ASM
                          14K
                                 Another single disk file copy program
 C78.28
           SWAPCOPY.COM
                           2 K
                                 Single disk file copy program
 C78.29
           SWAPCOPY.DOC
                           3 K
                                 Doc for single disk copy program
                                 Sample to test UN.COM
 C78.30
                           1 K
           TestProt.BAS
 C78.31
                           5 K
                                 Unprotect MBASIC programs
           UN.COM
                                 Prints cross-ref from PRN file to List device
 C78.32
                          23 K
           XREFPRN.ASM
                                 Prints cross-ref from PRN file to LIST device
 C78.33
           XREFPRN.COM
                           3 K
                                 CONTENTS OF CPMUG VOL. 079
  C79
           CATALOG.079
                           2K
                           4K
                                 CPMUG program submittal form
  C79
           UGFORM.LIB
                           1 K
                                 CRC file for verification
           CRCKFILE.079
 C79
                           2 K
  C79
                                 CRC check program
           CRCK.COM
                                 Doc for MODEM 7 - Originally from CPMUG Vol 47
                          16K
  C79.01
           MODEM7.DOC
                          14K
                                 MACLIB file for use with MODEM741.ASM
 C79.02
           MODEM7.LIB
                          66 K
                                 Assembler source for MODEM version 7.41
 C79.03
           MODEM741.ASM
 C79.04
                          10K
                                 Object code of above program
           MODEM741.COM
                           4K
                                 Patching instructions for MODEM741.COM
 C79.05
           MODEM741.SET
 C79.06
                           1 K
           MODEM7X.BUG
                                 Bug report
                                 Assembler source for SMODEM version 3.7
 C79.07
                          85K
           SMODEM37.ASM
 C79.08
                          26 K
                                 Documentation for the above program
           SMODEM37.DOC
 C80
           -CATALOG.080
                           2k
                                 CONTENTS OF CPMUG VOL. 080
 C80
           ABSTRACT.080
                           5k
                                 Volume abstract
                           2 K
 C80
           CRCK.COM
                                 CRC program
 C80
                           1 K
           FILES.CRC
                                 CRC of files on this disk
                           5K
 C80
           U-G-FORM.LIB
                                 CPMUG submission form
 C80.01
           BACKUP.STB
                           2K
                                 Part of mail list system
 C80.02
                           6 K
                                 Part of spelling program
           CEDIT.STB
           CHECK . DAT
                           2 K
                                 Part of spelling program
 C80.03
                           8 K
           CONV-ASC.STB
                                 Convert MBASIC to Cromemco structured BASIC
 C80.04
. C80.05
           CONV-BAS.STB
                           6 K
                                 Convert MBASIC to Cromemco structured BASIC
           DATE.STB
                           2K.
 C80.06
                                 Part of mail list system
 C80.07
           DEDIT.STB
                          10K
                                 Part of spelling program
                           2 K
           DICTION.DAT
                                 Part of spelling program
 C80.08
           GRADER.STB
                          12K
                                 Text evaluation program
 C80.09
                           4K
           MMENU.STB
                                 Part of mail list system
 C80.10
                           2K
                                 Printer test program
           PRN-TEST.STB
 C80.11
           REC-EDIT.STB
                          10K
                                 Part of mail list system
 C80.12
                                 Part of mail list system
 C80.13
           REC-PRN.STB
                           8 K
           SMENU.STB
                           2 K
                                 Part of spelling program
 C80.14
                           8 K
                                 Sort routines
 C80.15
           SORTS.STB
                                 Statistics program
           SPEAR . STB
                           2 K
 C80.16
                                 Part of spelling program
 C80.17
           SPELL.STB
                           6 K
                          10K
                                 Statistics program
           STAT.STB
 C80.18
 C80.19
           TRADE.STB
                          20K
                                 Game prog with no GOTOs!
           TRANSFER.STB
                           4K
                                 Part of spalling program
 C80.20
                          24K
           TREK.STB
                                 Yes, Startrek
 CBO.21
           TRK-HELP.STB
                          16K
                                 More Startrek stuff
 C80.22
                                 "Unnum" and renum BASIC progs
           UTILITY.STB
                           6 K
 C80.23
           WORDLIST.TXT
                          40 K
                                 Part of spelling program
 C80.24
                           2 K
           X2.STB
                                 Statistics program
 C80.25
                           2K
                                 Part of mail list system
           ZIPSORT.STB
 C80.26
           -CATALOG.081
                           1 k
                                 Contents of CP/M Vol. 81
 C81
                                 Abstract of files on volume 81.
           ABSTRACT.081
                           3 k
 C81
           CRCK.COM
                           2 K
                                 Produce CRC of files
 C81
```

.

```
C81
          U-G-FORM.LIB
                          5K
                               CPMUG submission form
C81.01
          AUTOLOAD.COM
                         10K
                               Write initial CP/M command into CCP on disk
C81.02
          AUTOLOAD.DOC
                          3 K
                               Write initial CP/M command into CCP on disk
C81.03
          BACKUP.ASM
                         28K
                               Backup hard disk to multiple floppy disks
C81.04
          BACKUP.DOC
                               Backup hard disk to multiple floppy disks
                          7 K
C81.05
          BAUDSET.ASM
                          7 K
                               Set baudrate for serial board
C81.06
                               Set baudrate for serial board
          BAUDSET.DOC
                          2 K
C81.07
          EDITM.ASM
                         25K
                               Update of C16 editor, with new features
C81.08
                               Update of C16 editor, with new features
          EDITM.COM
                          3 K
C81.09
          EDITM.DOC
                          4K
                               Doc on new C16 editor
C81.10
          FLOPCOPY.ASM
                         16K
                               Copy floppy via hard disk w/1 floppy drive
CB1.11
          FLOPCOPY.DOC
                          2 K
                               Copy floppy via hard disk w/1 floppy drive
C81.12
          POW2.ASM
                         42 K
                               "Processor of Words" - text processing program
C81.13
          POW2.COM
                          5K
                               Text processing program
C81.14
          POW2.DOC
                          4K
                               Text processing program
C81.15
          POW2.MAN
                         23 K
                               Manual on above
C81.16
          POW2.TST
                          2 K
                               Test document
C81.17
                         22K
                               Super submit program, allowing nested submits
          SUPERSUB.ASM
C81.18
          SUPERSUB.COM
                          3 K
                               Super submit, allowing nested submits
                         15K
C81.19
          SUPERSUB.DOC
                               Doc on Super submit
C82
          -CATALOG.082
                          1 K
                               Contents of CPMUG Vol. 082
C82
                          3 K
                               Volume 82 abstract
          ABSTRACT.082
C82
                          2 K
          CRCK.COM
                               CRC check program
C82
          FILES.CRC
                          1 K
                               CRC of files on disk
C82
                          5K
                               CPMUG contribution form
          U-G-FORM.LIB
C82.01
                         53 K
          MBIOS56.ASM
                               Bios with PMMI MODEM drivers
C82.02
          NBIOS56.ASM
                         55K
                               North Star BIOS
C82.03
          NSBIOS.DOC
                         16K
                               DOC on above
C82.04
          NSCOPY.ASM
                         35K
                               Disk format and copy program
                               Sysgen program
C82.05
          NSGEN.ASM
                         12K
C82.06
          SDNBIOS.ASM
                         21K
                               Single density N* BIOS
                          2 K
C82.07
          SDNBOOT.ASM
                               Single density N* BOOT
C82.08
                         11K
          SDNSGEN.ASM
                               Single density N* SYSGEN
C82.09
                          8K
          SDNUSER.ASM
                               Single density N* user area
C83
         -CATALOG.083
                          3 K
                               CONTENTS OF CPMUG VOL. 83
C83
          ABSTRACT.083
                          3 K
                               Abstract of volume
C83
                          2 K
          CRCK . COM
                               CRC check program
                          2 K
C83
          FILES.CRC
                               CRC of files on disk
                          5K
          U-G-FORM.LIB
                               CPMUG contribution form
C83
                               muMATH arithmetic
C83.01
          ARITH% . MUS
                          6 K
          ATRG. TRG
                          2K
C83.02
                               muMATH inverse trig functions
                               muMATH integrals
C83.03
          INT%.DIF
                          1 K
                          1 K
C83.04
          LIM% .DIF
                               muMATH limits
                          1 K
C83.05
          LOG% .ALG
                               muMATH logarithms
                         12K
         MUMATH% DOC
                               explanations of the files
C83.06
         SERIES% .DIF
                         10K
C83.07
                               muMATH infinite series
         SOLVE4% . EQN
                          5K
                               muMATH solution of equations
C83.08
          TRGNEG% .ALG
                          3 K
                               muMATH trigonometric functions
C83.09
          APPENDIX.DOC
                         11K
                               Appendix to CMATH/DOC. matrix math & circuits
C83.10
          CMATH.DOC
                         13K
                               Doc for complex math files except COMCALC/BAS
C83.11
                         12K
                               Source for "calculator" mode complex math
         COMCALC. BAS
C83.12
                          5 K
                               Compiled COMCALC/BAS
C83.13
         COMCALC.INT
         COMDISK.DOC
                          6 K
                               DOC for complex subroutines XXXXXX.SRT
C83.14
                          1 K
         DIVCOM.SRT
                               Divide two complex quantities
C83.15
         LPFILTAN.BAS
                          8 K
                               Source code for multipole filter analysis
C83.16
                          4K
         LPFILTAN.INT
                               Compiled LPFILTAN.BAS
C83.17
                          1 K
                               Multiply two complex quantities
         MPYCOM.SRT
C83.18
         MTXMPY.SRT
                          1 K
                               Matrix multiplication
C83.19
                          1 K
         PAR/SER.SRT
                               Parallel to serial impedance convert
C83.20
         POL/REC.SRT
                          1 K
                               Complex polar to rectangular convert
C83.21
         REC/POL.SRT
                          1 K
                               Complex rectangular to polar convert
C83.22
                          1 K
                               Reflection coefficient to Z conv
         REFC/Z.SRT
C83.23
         SER/PAR.SRT
                          1 K
                               Serial to parallel impedance convert
C83.24
                          2 K
          SMATX, SRT
                               convert S matrix to X matrix
```

```
C83.26
                         2 K
                               Convert X matrix to S matrix
         XMATS.SRT
C83.27
                               convert Y to Z or Z to Y matrix
         YZZY.SRT
                         2K
C83.28
         Z/REFC.SRT
                         1 K
                               Z to reflection coefficient convert
C83.29
                         1 K
                               Convert Z to X or X to Z matrix
         ZXXZ.SRT
C83.30
         CONTENT.DSK
                               Brief description of disk contents.
                         3 K
C83.31
                        12K
                               Microsoft M80 source for part of CPMLIB
         CPMFN.MAC
C83.32
                               Assembled version of CPMFN.MAC
                         1 K
         CPMFN.REL
C83.33
                               Microsoft M80 source for part of CPMLIB
                         3 K
         CPMFNA MAC
C83.34
                         1 K
                               Assembled version of CPMFNA.MAC
         CPMFNA.REL
                               Microsoft F80 source for part of CPMLIB
C83.35
         CPMINT.FOR
                        30K
C83.36
                               Compiled version of CPMINT.FOR
         CPMINT.REL
                         5K
C83.37
                        17K
                               Documentation on the use of CPMLIB
         CPMLIB.DOC
                               Doc on how to modify functions of CPMLIB
C83.38
                         4K
         CPMLIB.MOD
                               Library to interface FORTRAN-80 to CP/M BDOS
C83.39
         CPMLIB.REL
                         6 K
                         5 K
                               FORTRAN source for program to test library
C83.40
         TEST.FOR
                               Contents of CPMUG Volume 84
         -CATALOG.084
                         2k
C84
                         3 k
                               Abstracts of files on this disk
C84
         ABSTRACT.084
                         2 K
                               Program for checking CRC's of files
C84
         CRCK.COM
C84
         CRCKLIST.084
                         1 K
                               CRCK's of files on this disk
                         5K
                               Program submittal form
C84
         U-G-FORM.LIB
         MODEM7.DOC
                        16K
                               Documentation for MODEM program
C84.01
C84.02
         MODEM76.LIB
                        14K
                               Macro library used with MODEM 7.65
                               Instructions for "hot-patching" MODEM
         MODEM76.SET
                         6 K
C84.03
C84.04
         MODEM765.ASM
                        63K
                               Macro assembler source code for MODEM 7.65
C84.05
                        10K
                               Object code of MODEM 7.65
         MODEM765.COM
C84.06
         SEQIO22.LIB
                        18K
                               Macro library used with XMODEM 5.0
C84.07
         XMODEM47.DOC
                         3 K
                               Documentation for XMODEM program
                        49K
                               Assembler source code for XMODEM 5.0
C84.08
         XMODEM50.ASM
C84.09
         XMODEM51.FIX
                         1 K
                               Notes on a bug fix for XMODEM
C85
         -CATALOG.085
                               CONTENTS OF CP/M VOL. 085
C85
         ABSTRACT.085
                               Abstracts of files on this disk.
                               CRC file checking program.
C85
         CRCK.COM
C85
         CRCKLIST.085
                               List of CRC's for files on this disk.
                        78K
                               8080 Assembler source code for BYE 7.9
C85.01
         BYE79.ASM
                        15K
                               Documentation for BYE 7.9
C85.02
         BYE79.DOC
C85.03
         SD-44.ASM
                        48 K
                               8080 Assembler source code for SD 4.4
                         2 K
                               Assembled 085.3 (for those without MAC)
         SD-44.COM
C85.04
                               Documentation for SD 4.4
         SD-44.DOC
                        14K
C85.05
         SQ-16.COM
                        16K
                               8080 object file for SQUEEZE 1.6
C85.06
                        23 K
         SQUEEZ16.DOC
                               Documentation for SQUEEZE and UNSQUEEZE
C85.07
                                                                           programs
C85.08
         USQ-19.COM
                        12K
                               8080 object file for UNSQUEEZE 1.9
                         2 K
                               CONTENTS OF CP/M VOL. 086
C86
         -CATALOG.086
                         3 K
         ABSTRACT.086
                               Release to public domain of BMII
C86
                         5K
         U-G-FORM.LIB
                               Users Group Submission Form
C86
                         2K
                               File of all file CRC's
         CRCKLIST.086
C86
                         2 K
         CRCK.COM
                               To check files on this disk
C86
                         2K
         APPENDA.DOC
                               Diskette handling tips for novices
C86.01
         APPENDB.DOC
                         3 K
                               Disk File Capacities
C86.02
         APPENDC.DOC
                         4K
                               Data File Diskette set-up
C86.03
                         2 K
                               Programs not Accessed through the Menu
         APPENDD.DOC
C86.04
         APPENDE.DOC
                        10K
                               Compilation of businessMaster II progs
C86.05
         APPENDF.DOC
                        18K
                               General File Information
C86.06
                        14K
         APPENDG.DOC
                               Forms for establishing acct. #'s etc
C86.07
                         2K
         APPENDH.DOC
                               How to increase size of a data file
C86.08
         GLOSSARY.DOC
                         7 K
                               Glossary of terms
C86.09
         HIERARCH.DOC
                        12K
                               What program calls what program, and where
C86.10
                       132K
         NEW.DOC
                               Comprehensive overall system doc
C86.11
         -CATALOG.087
                         4K
                               CONTENTS OF CPMUG VOL. 87
C87
                         5K
         U-G-FORM.LIB
                               Users Group Submission Form
C87
                               File of all file CRC's
         CRCKLIST.087
                         2 K
C87
         CRCK.COM
                         2 K
                               To check files on this disk
C87
```

Tic ii rocems

COMPILE.SUB

2 K

```
C87.01
                               Include FORMAT and CONTROL
         ALL.BAS
                          1 K
C87.02
         BIZMII.BAS
                          4K
                               Master Menu Businessmaster II (bizmii)
C87.03
         CHECK.BAS
                          2K
                               Check for needed files
C87.04
         CONTROL.BAS
                          1 K
                               Set up control characters for terminal
C87.05
         FORMAT.BAS
                          1 K
                               Set common and formats
C87.06
                          1 K
         READFILE.BAS
                               Read name, date, formats and tabs
C87.07
          CGDEPCAL.BAS
                          6 K
                               Depreciation Calculator
C87.08
          CGENTRY.BAS
                         11K
                               Capital Goods (Fixed Asset) Entry Program
C87.09
                          3 K
                               IRS Form 4652 - Depreciation Printer
          CGFM4562.BAS
C87.10
          CGRPT.BAS
                          4K
                               Depreciation Report Printer
C87.11
                          3 K
                               Capital Goods Entry Sort Program
          CGSORT.BAS
C87.12
                          3 K
                               Cust. mailing label printing program
          CRLABELS.BAS
                          5K
                               Date Entry Program
C87.13
          DAENTRY.BAS
C87.14
          EFENTRY.BAS
                          8K
                               Federal Tax Table Entry Program
                               Payroll Cutoff and % Entry Program
                          5K
C87.15
          EPCUTS.BAS
C87.16
          EPLABELS.BAS
                          3 K
                               Empl. mailing label printing program
C87.17
          EPTABS.BAS
                          7 K
                               Payroll Check Tab Entry Program
C87.18
          ESENTRY.BAS
                         11K
                               Cal. State Tax Table Entry Program
                               Finished Goods Inventory Alert Printer
C87.19
          FGALERT.BAS
                          4K
C87.20
                         11K
                               Finished Goods Inventory Entry Program
          FGENTRY.BAS
C87.21
          FGRPT.BAS
                          4K
                               Finished Goods Inventory Report Printer
                               Finished Goods Entry Sort Program
C87.22
                          3 K
          FGSORT.BAS
C87.23
          FMTENTRY BAS
                          5K
                               $ and % Format Entry Program
C87.24
                         11K
          GLHENTRY.BAS
                               General Ledger Heading Entry Program
C87.25
                         3 K
          GLHSORT.BAS
                               G/L Heading Entry Sort Program
C87.26
          GLSENTRY.BAS
                         11K
                               G/L Subheading Entry Program
C87.27
          GLSSORT.BAS
                          3 K
                               G/L Subheading Entry Sort Program
C87.28
                          9 K
         MAENTRY.BAS
                               Mailing List Name Entry Program
C87.29
                          3 K
                               Mailing label printing program
         MALABELS.BAS
C87.30
                         3 K
         MASORT.BAS
                               Mailing List Entry Sort Program
C87.31
         MASTER4.BAS
                          3 K
                               Inventory Menu
         MASTER6.BAS
C87.32
                          2K
                               Mailing List Menu
C87.33
                         3 K
         MASTER7 BAS
                               Initialization Routines Menu
C87.34
         MASTER8.BAS
                          1 K
                               Periodic Maintenance Menu
C87.35
                          1 K
         MASTER9.BAS
                               General Ledger Heading Menu
C87.36
         MASTER15 BAS
                          1 K
                               Check Tabs and Cutoffs Menu
C87.37
         MASTER16.BAS
                         2 K
                               Fixed Asset Accounting Menu
C87.38
         MMAINT.BAS
                          5K
                               Monthly File Maintenance Program
C87.39
         NAMENTRY . BAS
                          9K
                               Company Name Entry Program
C87.40
         NMSORT.BAS
                         3 K
                               Company Name Entry Sort Program
C87.41
         QMAINT.BAS
                         6 K
                               Quarterly File Maintenance Program
                          4K
C87.42
         RGALERT.BAS
                               Raw Goods Inventory Alert Printer
C87.43
         RGENTRY.BAS
                        11K
                               Raw Goods Inventory Entry Program
C87.44
         RGRPT . BAS
                          4K
                               Raw Goods Inventory Report Printer
C87.45
         RGSORT.BAS
                         3 K
                               Raw Goods Entry Sort Program
C87.46
         TAENTRY.BAS
                         7 K
                               General Ledger Tab Entry Program
C87.47
         VPLABELS.BAS
                         3 K
                               Mailing label printing program
C87,48
         YMAINT.BAS
                         6 K
                               Yearly File Maintenance Program
         -CATALOG.088
                          4K
C88
                               CONTENTS OF CPMUG VOL. 088
         U-G-FORM.LIB
                         5K
C88
                               Users Group Submission Form
C88
         CRCKLIST.088
                         2 K
                               File of all file CRC's
         CRCK.COM
                         2 K
                               To check files on this disk
C88
         CG.
                         6 K
C88.01
                               Cost of goods sold file
         CGSIZE.
                         1 K
                               # in use + max size of above
C88.02
         CHK.
                          1 K
                               ?? next check # to write??
C88.03
                          9 K
         CR.
C88.04
                               Customer receivables file
                               # in use + max size of CR file
         CRSIZE.
                          1 K
C88.05
                         1 K
         DATE.
                               Date information
C88.06
         EDEP.
                          4K
                               Federal deposit record
C88.07
         EDEPSIZE.
                         1 K
                               # in use + max size of EDEP file
C88.08
                         1 K
                               Federal Withholding Tables
C88.09
         EF.
                         11K
                               Consolidated employee payroll
         EP.
C88.10
         EPSIZE.
                          1 K
                               # in use + max size of EP file
C88.12
C88.11
         EPC.
                          1 K
                               Payroll cutoff amounts
```

C88 13

FPT.

1 K

Parro

```
C88.14
          ES.
                          1 K
                               California Withholding Tables
C88.15
         FG.
                          6 K
                               Finished goods inventory
C88.16
         FGSIZE.
                          1 K
                               # in use + max size of FG file
C88.17
                         14K
          GL.
                               General ledger file
C88.29
          GLSIZE.
                          1 K
                               # in use + max size of GL file
C88.18
                          6 K
                               Check disbursements
          GLCD.
C88.19
          GLCDSIZE.
                          1 K
                               # in use + max size of GLCD file
C88.20
                          2 K
          GLCK.
                               Check receipts
C88.21
          GLCKSIZE.
                          1 K
                               # in use + max size of GLCK file
C88.22
          GLF.
                          1 K
                               General ledger formats
C88.23
                          2K
                               General ledger heading file
          GLH.
                               # in use + max size of GLH file
C88.24
          GLHSIZE.
                          1 K
                         13K
C88.25
                               General journal
                                                   glio
          GLJO.
                               # in use + max size of GLJO file
C88.26
          GLJOSIZE.
                          1 K
                               General Ledger Account # Reference File
                          1 K
          GLREF.
C88.27
                          4K
                               General ledger subheading file
C88.28
          GLS.
                          1 K
C88.30
          GLSSIZE.
                               # in use + max size of GLS file
C88.31
          GLT.
                          1 K
                               General ledger report tabs
C88.32
          INV.
                          1 K
                               Invoice # File
                          9 K
                               Invoice register
          IR.
C88.33
C88.34
          IRSIZE.
                          1 K
                               # in use + max size of IR file
                               Mailing list file
C88.35
         MAO.
                          8 K
         MADSIZE.
                          1 K
                               # in use + max size of MAO file
C88.36
                          1 K
                               Company Name File
C88.37
         NM.
C88.38
         NMSIZE.
                          1 K
                               # in use + max size of NM file
                          3 K
                               Purchase order register
C88.39
         PO.
                          1 K
                               # in use + max size of PO file
         POSIZE.
C88.41
C88.40
         POE.
                          1 K
                               Purchase order numbers
                               Time card record
                          3 K
C88.42
         TM.
C88.43
         VP.
                          5 K
                               Vendor payables file
C88.44
         VPSIZE.
                          1 K
                               # in use + max size of VP file
         ALL.BAS
                          1 K
                               Include FORMAT and CONTROL
C88.44A
                          4K
                               Master Menu Businessmaster II (bizmii)
         BIZMII.BAS
C88.44B
                          2 K
                               Check for needed files
C88.44C
         CHECK . BAS
                          1 K
                               Set up control characters for terminal
C88.44D
         CONTROL.BAS
                               Set common and formats
                          1 K
         FORMAT.BAS
C88.44E
                          1 K
C88.44F
         READFILE BAS
                               Read name, date, formats and tabs
C88.44G
         COMPILE.SUB
                          1 K
                               To compile all following programs
         EPCHECKS.BAS
                          4K
                               Payroll Check Printer
C88.45
                          1 K
         EPCLEAR . BAS
                               Employee payroll clearing program
C88.46
                          8K
                               Federal Tax Deposit Entry Program
          EPDPOSIT.BAS
C88.47
                         14K
                               Employee Payroll Record Entry Program
         EPENTRY.BAS
C88.48
C88.49
          EPJOPOST.BAS
                          6 K
                               Payroll Journal Posting Program
         EPJOTRAN.BAS
                          9 K
                               Payroll Calculation Program
C88.50
                          3 K
          EPLIST.BAS
                               Payroll File Listing Program
C88.51
                          5 K
C88.52
          EPSORT.BAS
                               Employee Info Entry Sort Program
                          5K
          EPSUMARY.BAS
                               Payroll Register Printer
C88.53
                          5K
                               Federal Form 941 Quarterly Tax Return Printer
         FED941PR.BAS
C88.54
         MASTER14.BAS
                          2K
                               Payroll Entry and Calculation Menu
C88.55
          MASTER5.BAS
                          3 K
                               Employee Payroll Menu
C88.56
         TMENTRY.BAS
                         10K
                               Payroll Time Card Entry Program
C88.57
                          5K.
         W2PRINT.BAS
                               Federal W2 Printer
C88.58
                          2 K
                               CONTENTS OF CPMUG VOL. 089
         -CATALOG.089
C89
                          5K
          U-G-FORM.LIB
                               Users Group Submission Form
C89
                          2 K
          CRCKLIST.089
                               File of all file CRC's
C89
          CRCK.COM
                          2 K
                               To check files on this disk
C89
                          1 K
                               To compile all following programs
          COMPILE.SUB
C89
                          1 K
                               Include FORMAT and CONTROL
          ALL.BAS
C89.01
          BIZMII.BAS
                          4K
                               Master Menu@Businessmaster II (bizmil)
C89.02
          CHECK.BAS
                          2 K
                               Check for needed files
C89.03
                          1 K
          CONTROL.BAS
                               Set up control characters for terminal
C89.04
          FORMAT.BAS
                          1 K
                               Set common and formats
C89.05
                               Read name, date, formats and tabs
          READFILE.BAS
                          1 K
C89.06
          CRENTRY . BAS
                         12K
                               Customer Information Entry Program
C89.07
          CREMINV.BAS
                          7 K
                               Frm t d In oice Printing Program
```

```
C89.09
          CRJOLIST.BAS
                          8K
                               Invoice Register Printing Program
C89.10
          CRJOPOST.BAS
                          5K
                               Accounts Receivable Posting Program
C89.11
          CRJOTRAN.BAS
                         13K
                               Order/Invoice Entry Program
C89.12
                          3 K
                               Customer mailing label printing program
          CRLABELS.BAS
C89.13
          CRPPINV.BAS
                          7 K
                               Preprinted Invoice Printing Program
C89.14
                          4K
                               Aged Accounts Receivable Statement Printer
          CRRPT.BAS
C89.15
                               Customer Information Entry Sort Program
          CRSORT.BAS
                          3 K
C89.16
          INVENT.BAS
                          1 K
                               Invoice Number Sequencing Entry Program
C89.17
          MASTER2.BAS
                          3 K
                               Accounts Receivable/Customer Menu
C89.18
                          3 K
          MASTER3.BAS
                               Accounts Payable/Vendor Menu
C89.19
          POENT.BAS
                          1 K
                               Purchase Order # Sequencing Entry Program
C89.20
          VPENTRY.BAS
                         12K
                               Vendor Information Entry Program
C89.21
                          7 K
                               Formatted Purchase Order Printing Program
          VPFMPO.BAS
C89.22
          VPJOLIST.BAS
                          8 K
                               Purchase Order Register Printing Program
C89.23
          VPJOPOST.BAS
                          5K
                               Accounts Payable Posting Program
C89.24
          VPJOTRAN.BAS
                         13K
                               Purchase Order Entry Program
          VPLABELS.BAS
                          3 K
                               Mailing label printing program
C89.25
C89.26
          VPPPPO.BAS
                          7 K
                               Preprinted Purchase Order Printing Program
          VPRPT.BAS
                          4K
                               Aged Accounts Payable Statement Printer
C89.27
C89.28
          VPSORT.BAS
                          3 K
                               Vendor Information Entry Sort Program
C90
         -CATALOG.090
                          3 K
                               CONTENTS OF CPMUG VOL. 090
C90
          U-G-FORM.LIB
                          5 K
                               Users Group Submission Form
                          1 K
C90
         CRCKLIST.090
                               File of all file CRC's
C90
                          2 K
         CRCK.COM
                               To check files on this disk
C90
         COMPILE.SUB
                          1 K
                               To compile all following programs
                               Include FORMAT and CONTROL
                          1 K
C90.01
         ALL.BAS
                          4K
                                Master Menu Businessmaster II (bizmil)
C90.02
         BIZMII.BAS
C90.03
         CHECK . BAS
                          2 K
                               Check for needed files
C90.04
         CONTROL.BAS
                          1 K
                               Set up control characters for terminal
                          1 K
C90.05
         FORMAT.BAS
                               Set common and formats
C90.06
         READFILE.BAS
                          1 K
                               Read name, date, formats and tabs
                         11K
C90.07
                               Comparative Income Statement Printer
         GCINCOME.BAS
C90.08
         GDCHECKS.BAS
                          4K
                               General Check Printer
                          5K
C90.09
          GLBALSHT.BAS
                               General Ledger Balance Sheet Printer
C90.10
          GLBUDGET.BAS
                          3 K
                               General Ledger Budget Analysis Printer
                          9 K
C90.11
         GLCDPOST.BAS
                               Check Disbursement Posting Program
                          4K
C90.12
          GLCDSORT.BAS
                               Check Disbursements Entry Sort Program
                         15K
C90.13
         GLCDTRAN.BAS
                               Check Disbursements Journal Entry Program
                          4K
C90.14
          GLCHART.BAS
                               General Ledger Chart of Accounts Printer
         GLCKPOST.BAS
                          9 K
C90.15
                               Check Receipt Posting Program
                          4K
          GLCKSORT.BAS
                               Check Disbursements Entry Sort Program
C90.16
          GLCKTRAN.BAS
                         14K
                               Check Ropts Journal Trans. Entry Program
C90.17
         GLCLEAR . BAS
                          1 K
C90.18
                               Clear all DOLLAR values in the GL file
                         11 K
          GLENTRY.BAS
C90.19
                               General Ledger Entry Program
                         10K
         GLINCOME.BAS
                               Income Statement Printer
C90.20
                          9 K
C90.21
          GLJOPOST.BAS
                               General Journal Posting Program
                          4K
         GLJOSORT.BAS
                               General Journal Sorting Program
C90.22
         GLJOTRAN.BAS
                         13K
C90.23
                               General Journal Trans. Entry Program
                               General Ledger Entry Sort Program
         GLSORT.BAS
                          3 K
C90.24
         GLTBAL.BAS
                          6 K
C90.25
                               General Ledger Trial Balance Printer
         MASTER1.BAS
                          3 K
C90.26
                               General Ledger/General Journal Menu
         MASTER11.BAS
                          2K
                               General Journal Menu
C90.27
         MASTER12.BAS
                          1 K
                               Check-Cash Reciepts-Disbursements Menu
C90.28
         -CATALOG.091
                               CONTENTS OF CP/M VOL. 91
C91
         ABSTRACT.091
                               Abstract of volume contents.
C91
         FILES.CRC
                               CRC of all files on disk
C91
         CRCK.COM
                               CRC generator (CRCK *.* F)
C91
                         26 K
                               Executable arithmetic functions
         ARIT.COM
C91.01
         ARIT.FOR
                          4K
                               Arithmetic functions
C91.02
         ARIT#.SUB
                          1 K
                               Submit file
C91.03
         DISKIO.BAS
                          2 K
                               Disk file I/O in BASIC
C91.04
                               Executable FFT program
         FFT.COM
                         21K
C91.05
                        27 K
                               1024 point FFT
         FFT.FOR
C91.06
          FFT#.SUB
                          4K
C91.07
                               Submit file
```

	C91.08	HI.FOR	6 K	DMP2 driver
	C91.09	HIA.MAC	2 K	DMP2 driver
	C91.10	NAME.FOR	1 K	Filename getter
	C91.11	PLOT.FOR	4K	Plotter plot routine
	C91.12	PRINT80.COM	9 K	COM of PRINT80.FOR
	C91.13	PRINT80.DOC	1 K	DOC PRINT80.FOR
_	C91.14	PRINT80.FOR	4K	Compresses M80 PRN files
Į	C91.15	PRINT80.REL	4K	REL of PRINT80.FOR
_	C91.16	PRINT81.COM	10K	COM of PRINT81.FOR
	C91,17	PRINT81.FOR	6 K	Print FORTRAN & ASM w/page ejects & titles
	C91.18	PRINT81.REL	5 K	REL of PRINT81.FOR
	C91.19	QCHEK.MAC	1 K	Checks for abort (Q) command
	C91.20	SPECTRUM.DOC	17K	Documentation
	C91.21	TTYPLOT.FOR	5K	Printer plot routine
	C91.22	TWIDDLE.FOR	2 K	Generates twiddle factor table
	C91.23	UTIL.FOR	8 K	Utility program
	C91.24	UTIL#H.SUB	1 K	Submit file
	C91.25	UTIL#T.SUB	1 K	Submit file
	C91.26	UTIL-HI.COM	25K	DMP2 version of UTIL.COM
	C91.27	UTIL-TTY.COM	24K	TTY version of UTIL.COM
	C91.28	WIND FOR	5 K	Window functions

C USERS GROUP LIBRARY INDEX

```
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                         Contents
        Name
 01
                         Small-C compiler, version 1.0
     SMALL-C COMP 1.0
 02
                         Small-C compiler, version 2.0
     SMALL-C COMP 2.0
 03
     GAMES 1
                         Life, Jotto, Mastermind, Rally, Tic-tac-toe, Yahtzee
 04
                         Disk util, directory, KWIC, file compare, compress
     UTILITIES 1
 05
                         Word processor, file contat, compare, search, tabify
     UTILITIES 2
                         BIOS tinkering, I/O redirection, string-bit-manip
 06
     FUNCTIONS 2
 07
                         Long integer, floating-point, trig, redir I/O
     FUNCTIONS 1
 08
     FUNCTIONS 3
                         Log, trig, floating-point
                         YAM (Yet Annother Modem) and utilities
 09
     UTILITIES 3
                 (YAM)
 10
                         More Utilities
     UTILITIES 4
 11
                         Disk analysis, Disk Doctor, New Run-Off
     UTILITIES 5
 12
                         Archive, Directed I/O, date, pre-processor
     TOOLS 1
 13
     MARTZ LIBRARY
                         More utilities
 14
                         Computer Bulletin-Board, Run-time
     CITADEL 1
 15
                         Computer Bulletin-Board, Source code
     CITADEL 2
 16
     UTILITIES IV
                         Binary calc, count, CRCK4, disk editor
 17
     COMPILER UTILITIES
                        META4 compiler, cross-reference, pretty-printer
 18
     PISTOL
                         Portably Implemented STack Oriented Language
 19
     MISC 1
                         does not include kitchen sink
20
                         BDOS, BIOS stuff, DiskIO, disk patch, long
     (untitled)
21
     GAMES 2
                         Backgammon, Hangman, Othello, Pacman, Pong, Wumpus
22
     ROFF V4.0
                         Run-Off formatting-printing program
23
     RAP
                         Text formatter
24
     TEX
                         Text formatter for FancyFont & Epson MX-**
25
     VIDEO TERM LIBRARY
                        & Word Processor, Tic-tac-toe, deflection game
26
     REAMS EDITOR BDS C
                        Ed Reams Text Editor source in BDS C
27
     REAMS ED SMALL-C
                         Ed Reams Text Editor source in Small-C
 28
     AG1
                         Patches to Mince, Crayon & Scribble
29
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                         QED Editor, File encryption, Pack, Unpack
30
     6800/1800 ASM
                         Cross-assemblers in C, disk surgery
31
     ADVENTURE
                         Complete game source and data
                         Software Tools in RATFOR
901
     DOCUMENTATION
902
     PRIMITIVES
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     PRIMITAVES 2/2 M-Z
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     DICTIONARY 2/2 M-Z
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RNC 4/84

XO1 ACRL - .CRL formate assembler / FPUT - file copy utilities XO2 BDS 'C' Compiler utilities II

XO3 C Tools / 6809 C Compiler / Graphics Priver

```
TYPE -CUG-CAT.ALL
                      [CUG DIRECTORY]
                                          CUG vol. 0
                                                               2/12/85
                      CUG DIRECTORY vols. 1-31
                            (as of 2/12/85)
CUG-001.1
             21K
                   FA 82
                           ASSEMBLE.COM
                                          Small-C assembler
CUG-001.2
              6 K
                   6E 2C
                           C
                                    .DEF
                                          Small-C definitions
                   A2 F7
                           C
                                    .SUB
                                          Small-C submit file
CUG-001.3
              1 K
                                          Small-C Vers 1 main source
                           C1
CUG-001.4
             11K
                   7D D1
                                    .С
                                    .COM
                           C1
                                          Small-C Compiler Vers 1 object
CUG-001.5
             32K
                   CA 5C
CUG-001.6
             13 K
                   92 68
                           C2
                                    .C
                                          Part of Small-C compiler C1.C
                                    .C
                                          Part of Small-C compiler C1.C
CUG-001.7
              5 K
                   E4 6A
                           C3
                   1F CE
                           C4
                                    .C
                                          Part of Small-C compiler C1.C
CUG-001.8
              6 K
                                    .C
                                          Part of Small-C compiler C1.C
              7 K
                   03 69
                           C5
CUG-001.9
              4K
                                    .C
                                          Part of Small-C compiler C1.C
CUG-001.10
                   05 97
                           C6
                                    .C
CUG-001.11
             14K
                   34 00
                           C7
                                          Part of Small-C compiler C1.C
                                    .C
CUG-001.12
              7 K
                   DB 15
                           C8
                                          Part of Small-C compiler C1.C
                   30 C3
                           C9
                                    .C
                                          Part of Small-C compiler C1.C
CUG-001.13
              4K
CUG-001.14
              1 K
                   4D 66
                           CC
                                    .SUB
                                          C-Compiler compile submit file
CUG-001.15
              1 K
                   E4 DE
                           CL
                                    .SUB
                                          C-Compiler link submit file
CUG-001.16
              3 K
                   7B 93
                           FUNCTION.ASM
                                          C-Compiler function assembly source
CUG-001.17
              1 K
                   FD 48
                           FUNCTION.CRL
                                          Relocatable of FUNCTION.ASM
                   EE 2E
CUG-001.18
             13K
                           LINK
                                    .COM
                                          Small-C linker
                                    .ASM
CUG-001.19
             12K
                   31
                      A9
                           RUNTIME
                                          Small-C runtime assembly source
CUG-001.20
              2 K
                   23 E6
                           RUNTIME
                                   .TXT
CUG-001.21
             26 K
                   9A 8A
                           STDLIB
                                    .ASM
                                          Small-C standard library asm source
CUG-001,22
              3 K
                   06
                      5B
                           STDLIB
                                    .TXT
                   6D 3E
CUG-001.23
              7 K
                           SUBMIT
                                    .C
                                          Small-C submit source
CUG-001.24
              5K
                   C7
                      68
                           TIME
                                    . C
CUG-002.1
              1 K
                   EB 02
                                    .C
                           ABS
CUG-002.2
              7 K
                   81
                      F9
                           CALL
                                    .AAA
CUG-002.3
              7 K
                   81 F9
                           CALL
                                    .ASM
                   OD 58
CUG-002.4
              1 K
                           CANT
                                    .C
CUG-002.5
              4K
                      1E
                                    .DEF
                   17
                          CC
                                          Small-C 2 Compiler definitions
CUG-002.6
              5K
                   47
                      4F
                           CC1
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.7
              7 K
                   DB 49
                                    .C
                           CC11
                                          Part of Small-C 2 Compiler
CUG-002.8
              7 K
                   08 2B
                           CC12
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.9
                   E2 AC
              8K
                           CC13
                                    . C
                                          Part of Small-C 2
                                                              Compiler
CUG-002.10
              2 K
                   D5 EA
                           CC2
                                    . C
                                          Part of Small-C 2 Compiler
CUG-002.11
              6 K
                   5D
                      53
                                          Part of Small-C 2
                           CC21
                                    .C
                                                              Compiler
CUG-002.12
              8K
                   F5 B1
                           CC55
                                    .C
                                          Part of Small-C 2
                                                              Compiler
CUG-002.13
              2 K
                   FO
                      9C
                           CC3
                                    .C
                                          Part of Small-C 2
                                                              Compiler
CUG-002.14
              7 K
                   63
                      71
                           CC31
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.15
              6 K
                   40 C9
                           CC32
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.16
              5K
                   OF
                      EΑ
                           CC33
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.17
              1 K
                   AD 49
                                    .C
                           CC4
                                          Part of Small-C 2 Compiler
CUG-002.18
              6 K
                   FE
                      B0
                          CC 41
                                    .C
                                          Part of
                                                   Small-C 2
                                                              Compiler
CUG-002.19
              8 K
                   6 C
                     80
                           CC 42
                                    .C
                                          Part of Small-C 2
                                                              Compiler
CUG-002.20
              1 K
                   AF 1A
                           DTOI
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.21
              1 K
                   CO
                      D9
                                    .C
                           GETWRD
                                          Part of Small-C 2 Compiler
CUG-002.22
              1 K
                   DO
                      9B
                           ITOD
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.23
              1 K
                   66
                     05
                           ITOU
                                    . C
                                          Part of Small-C 2 Compiler
              1 K
CUG-002.24
                   C1
                      73
                           ITOX
                                    .C
                                          Part of Small-C 2 Compiler
              1 K
                   BF
                      9E
CUG-002.25
                           LEFT
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.26
              1 K
                   D8 2F
                           LIB
                                    .C
                                          Small-C 2 Compiler library source
              1 K
CUG-002.27
                   1F 00
                           LIB
                                          Small-C 2 Compiler library header
                                    . H
CUG-002.28
              1 K
                   08 02
                           DUT
                                    .C
                                          Part of Small-C 2 Compiler
CUG-002.29
              1 K
                   88
                     EF
                                    .C
                           PAGE
                                          Part of Small-C 2 Compiler
              2K
CUG-002.30
                   67
                      69
                           PRINTF
                                    .C
                                          Part of Small-C 2 Compiler
              1 K
                   E3 2F
CUG-002.31
                           SIGN
                                    .C
                                          Part of Small-C 2 Compiler
              4K
                   83 12
CUG-002.32
                           STDIO
                                    .C
                                          Part of Small-C 2 Compiler
              3 K
                   07
                      A0
CUG-002.33
                           STDIO
                                    . H
                                          Small-C 2 Compiler standard I/O head
CUG-002.34
              2 K
                   22 C5
                           STDIOL
                                    . H
                                          Small-C 2 Compiler long I/O header
              1 K
                   5E EE
CUG-002.35
                           STRCMP
                                    . C
                                          Part of Small-C 2 Compiler
CUG-002.36
              1 K
                   1F
                      38
                           UTOI
                                    .C
                                          Part of Small-C 2 Compiler
              1 K
                   62
      J J.
                      4
```

```
8 K
                   9A 60
                                    .ASM
                                          Part of NLIFE. Z80 code
CUG-003.1
                           ALIFE
                                          Assembled vers. link with NLIFE
              2 K
                   93 01
                                    .CRL
CUG-003.2
                           ALIFE
CUG-003.3
              8K
                   92 AF
                           BUGS
                                    .C
                                          Game for Heath/Zenith
                                    .C
                                          Header for David Fogg games
CUG-003.4
              8 K
                   DA AB
                           DMF
              1 K
                   B3 7D
                                    .C
CUG-003.5
                           EUCLID
                                          Finds greatest common denominator
              2K
                   8B 29
                                    .ANS
                                          Part of IQUIZ
CUG-003.6
                           EZ1
                                   . C
                                          Extension of FLYBY
              6 K
                   F9 3B
CUG-003.7
                           FALLOUT
                                    .C
              2 K
                   08 1C
                           FLYBY
                                          Graphic demo for Heath/Zenith
CUG-003.8
                                    .ANS
CUG-003.9
              2 K
                   9D 01
                           HARD1
                                          Part of IQUIZ
                   D1 30
                                          Heath/Zenith version of STONE
CUG-003.10
             13K
                          HSTONE
                                    .C
CUG-003.11
              8 K
                   9B 51
                           IQUIZ
                                    .C
                                          Q/A Game for Heath/Zenith
                   87 64
                                    .DAT
                                          Part of IQUIZ
             23 K
CUG-003.12
                           IQUIZ
                                    .C
              8K
                   8E 92
                           JOTTO
                                          Word Game for Heath/Zenith
CUG-003.13
                   OF 76
                                    .WDS
                                          Part of JOTTO
              4K
                           JOTTO
CUG-D03.14
                                    .C
              9 K
                   B3 F4
                                          Life for non-Heath/Zenith
                           LIFE
CUG-003.15
                                    .DAT
CUG-003.16
             13K
                   BA OD
                           LIFE
                                          Screen images for NLIFE
                   05 01
                                    .C
                                          Visual demo for H19/Z19
CUG-003.17
             10K
                           LINES
              2K
                   7E 76
                          MED1
                                    .ANS
                                          Part of IQUIZ
CUG-003.18
              5K
                   4A CC
                                    .C
                                          Mastermind Game
CUG-003.19
                          MM
                                    .C
              7 K
                   80 54
                          NLIFE
                                          New H19/Z19 version of LIFE
CUG-003.20
              4K
                   31. 20
                                    .HLP
                           NLIFE
                                          Help for NLIFE
CUG-003.21
                                    .C
                                          RPN Demonstration
                   EC AD
CUG-003.22
              2K
                           POLISH
                                    .C
              8K
                   C8 45
                          PRESSUP
                                          Peg Game
CUG-003.23
                                    .MAP
CUG-003.24
              1 K
                   8B D5
                           R2
                                          Part of RALLY
                                          Road Game for H19/Z19
CUG-003.25
             11K
                   37
                      82
                          RALLY
                                    .C
                                    .MAP
              2K
                   53 8E
                          RALLY
                                          Part of RALLY
CUG-003.26
                                    .н
              7 K
                   A5 FF
                                          Header for XWORD, YAHTZEE, IQUIZ
CUG-003.27
                           STD
                   F5 7F
                                    .C
             10K
                                          WARI for TTY type terminals
CUG-003.28
                           STONE
                                          Tic-Tac-Toe Game
CUG-003.29
                   38 30
                                    .C
              8K
                          TTT
                                    .ANS
CUG-003.30
              2 K
                   17 DA
                          TV
                                          Data file for XWORD
                                    .ANS
CUG-003,31
              4K
                   66 42
                          XPERT1
                                          Data file for XWORD
CUG-003.32
             15K
                   AF 71
                          XWORD
                                    .C
                                          Crossword puzzle Game for H19/Z19
             12K
                   01 C7
                          YAHTZEE .C
√CUG-003.33
                                          Classic die/poker Game
                   52 CC
                          YAHTZEE .HLP
CUG-003.34
              4K
                                          Help for YAHTZEE
CUG-004.1
              6 K
                   A1 75
                                    .C
                           В
                                          Big Directory for H19/Z19
CUG-004.2
              2 K
                   FE D9
                           BIGDIR
                                    .C
                                          Big Directory for standard 24x80
CUG-004.3
              BK
                   00 FF
                          CB
                                   . C
                                          Pretty Printer for C programs
                                   .C
CUG-004.4
              2K
                   E2 62
                          CCOT
                                          C Pre-processor for TRS-80
                   14 B1
                                   . C
CUG-004.5
              9 K
                          CCRL
                                          COM -> CRL file translator
                                   .DOC
CUG-004.6
              3 K
                   DE 54
                          CCRL
                                          Instructions for CCRL.C
                   54 4C
                                    .C
CUG-004.7
              4K
                           CHCNT
                                          Counts occurrences of file characters
CUG-004.8
              2 K
                   F1 FA
                          CLOCK
                                   . H
                                          Header for DATEDEMO
CUG-004.9
              4K
                   C9 C2
                          COMP
                                   .C
                                          File comparator, lists differences
CUG-004.10
             14K
                   CF 83
                          COMPRESS.C
                                          File compressor, tokenizes strings
                   81 C7
CUG-004.11
             15K
                          COMPRESS.COM
                                          File compressor, tokenizes strings
              3 K
                   9C OB
CUG-004.12
                          COMPRESS.DOC
                                          Instructions for COMPRESS
                   05 FB
CUG-004.13
              8K
                           CONCORD .C
                                          Makes concordance file with KWIC
                                   .C
CUG-004.14
              4K
                   42 27
                           CONDUT
                                          Output processor for CONCORD
CUG-004.15
              8K
                   63 D1
                          DATEDEMO.C
                                          Demo for Mountain Hardware clock board
              7 K
CUG-004.16
                   5C D9
                           DATEDEMO.COM
                                          Demo for Mountain Hardware clock board
             12K
                   1A B5
CUG-004.17
                           DATEDEMO.DOC
                                          Instructions for DATEDEMO
CUG-004.18
              9K
                   02 18
                           DISK
                                    .C
                                          Disk utility program - single density
                                   .C
              8 K
CUG-004.19
                   8A AO
                           DMF
                                          Functions for KWIC and CONCORD
                                   .C
CUG-004.20
              7 K
                   1B 59
                           KWIC
                                          Key-Word-In-Context file generator
                                    .C
CUG-004.21
              5K
                   41 87
                           LIST
                                          Text file listing program
              5 K
                   B1 A0
                                   .C
CUG-004.22
                          MERGE
                                          Merge program for sorted files
CUG-004.23
              8 K
                   B6 60
                           MSORT
                                    . C
                                          Quick-sort program, makes sub-files
              7 K
                                          Disk Format converter DEC RT11 -> CP/M
                   DB DD
CUG-004.24
                          RT11
                                    .C
CUG-004.25
             14K
                   2C 18
                          RT11
                                    .COM
                                          Disk Format converter DEC RT11 -> CP/M
                   5B CC
              8 K
CUG-004.26
                           RT11
                                    .DOC
                                          Instructions for RT11
              2K
                   33 5F
                           RT11
                                          Header for RT11
CUG-004.27
                                    . H
                   DA 19
CUG-004.28
             12K
                           RTFILES
                                    .C
CUG-004.29
              4K
                   B5 7E
                           RTMISC
                                    .C
              3 K
```

CUG-004 30

01 16

SHOW

- C

Slows file including non-print & parit

```
Header for KWIC related programs
                    A5 FF
                7 K
                            STD
                                     . H
  CUG-004.31
  CUG-004.32
                2K
                    CD BO
                            STRIP
                                     .C
                                            Strips high-order bit from files
                1 K
                    B3 CE
                                     .C
                                            Counts words in file
                            WC
  CUG-004.33
                    A5 72
                                            Counts frequency of words in file
                4K
                            WFREQ
                                     . C
  CUG-004.34
                3 K
                    C7
                        00
                                     .C
                                            File functions for TYP
                            BIGFIO
  CUG-005.1
                                     .C
                                            File contatination program
                1 K
                    62
                        98
  CUG-005.2
                            CONCAT
                                     . C
                                            C Source file convertor for TRS-80
                4K
                    7E 5A
                            CONVERT
  CUG-005.3
                                            Disk/File Copier for 1-drive systems
                5K
                    1 D
                       48
                            COPYALL
                                     .C
  CUG-005.4
                                     .C
                                            Counts characters, words, lines in file
                5 K
                    80 B1
                            COUNT
  CUG-005.5
                                     .C
  CUG-005.6
                5 K
                    4A 92
                                            ERA with verification requests
                            DEL
                    DB B7
                            FILECOMP.C
                                            File comparator, byte/byte
                7 K
  CUG-005.7
                            GLOBALS .WP
                2K
                    34 59
                                            Part of WP
  CUG-005.8
                    A6 F2
                                     .C
                                            Dumps ASCII and HEX of file
                3 K
                            LISTF
  CUG-005.9
                                            C Program lineprinter formatter
  CUG-005.10
                3 K
                    C7
                        56
                            LPR
                                     .C
                1 K
                    2D 74
                            MACDEFS
                                     .WP
                                            Part of WP
  CUG-005.11
                            NEWCHCNT.C
                                            Frequency of each possible byte in file
                2 K
                    74 84
  CUG-005.12
                3 K
                                     .C
                                            Standard output, one at a time
                    90 45
                            PG
  CUG-005.13
                            PG
                                     .COM
                                            Standard output, one at a time
                6 K
                    67
                        09
  CUG-005.14
                                     .C
                    C4 A0
                                            File print with line numbers
  CUG-005.15
                1 K
                            PNUM
                                     .C
                3 K
                    E4 AF
                            PRMDMP
                                            PROM Reading program
  CUG-005.16
                                     .C
                                            Flashwriter for TRS-80 Mod II
  CUG-005.17
                6 K
                    88
                        94
                            SCREEN
                    DE OB
                                     .COM
                                            Flashwriter for TRS-80 Mod II
                6 K
                            SCREEN
  CUG-005.18
  CUG-005.19
                2 K
                    F9 69
                            SCRUB
                                     .C
                                            Deletes all ctrl ex. CR LF FF from file
                                            Searches RAM or file for string
                    FE BO
                                     .ASM
  CUG-005.20
               12K
                            SEARCH
                                     .COM
                                            Searches RAM or file for string
  CUG-005.21
                1 K
                    AA A2
                            SEARCH
                    94 DA
                                     . C
                                            Converts spaces to tabs in file
  CUG-005.22
                3 K
                            TABIFY
  CUG-005.23
               21 K
                    8E 94
                            TELNET
                                     .C
                                            Serial communication program
  CUG-005.24
                1 K
                    95
                        7 E
                            TYP
                                     .C
                                            File display with large buffers
                                            Disk translator UCSD Pascal -> C/M
                    FD 80
                            UCSD2CPM.C
               12K
  CUG-005.25
                                     . C
                    08 OE
                            UCSDIR
                                            Directory for UCSD Pascal disk
  CUG-005.26
                8 K
                    EB CF
                                     .C
                                            Converts tabs to spaces in file
                1 K
                            UNTAB
  CUG-005.27
                4K
                    CB
                        B7
                            UTIL-WP
                                     .C
                                            Part of WP
  CUG-005.28
                                     .C
  CUG-005.29
                    FO A1
                            VARTABS
                                            ASCII file to/from variable tabs
                5K
                                            Counts characters, words, lines
  CUG-005.30
                2K
                    72 D8
                            WC2
                                     . C
                                     .C
               10K
                    03
                        93
                            WP
                                            Word Processor, patterened after ROFF
  CUG-005.31
                                     .DOC
  CUG-005.32
                5K
                    BO 07
                            WP
                                            Instructions for WP
                                     .OUT
  CUG-005.33
                6 K
                    78 CB
                            WP
                                            Sample output from WP
                                     .ASM
  CUG-005.34
               14K
                    48 EA
                            XSDIR
                                            STAT-like Directory program
                                    .COM
                                            STAT-like Directory program
                    7F 30
                            XSDIR
  CUG-005.35
                2K
  CUG-005.36
               19K
                    F9 6B
                            XSDMAC
                                     .LIB
                                            Part of XSDIR
  CUG-005.37
                3 K
                    23
                       42
                            ZLPR
                                     .C
                                            Mod of LPR, prints functions on new page
  CUG-006.1
                    F8 9B
                1 K
                            BIOSLB
                                     .CRL
                                            Modified BIOS
  CUG-006.2
                    AF 95
                4K
                            BIOSLB
                                     . MAC
                                            Modified BIOS
  CUG-006.3
                    44 76
                9 K
                            BIOSLB
                                     .PRN
                                            Modified BIOS
  CUG-006.4
                BK
                    29
                        9A
                            BSPAT1-4.DOC
                                            BIOS Tinkering discussion
  CUG-006.5
                3 K
                    B7 FF
                            CHARFUN .ASM
                                            ASM version of char functions
  CUG-006.6
                3 K
                    48 AO
                                     .DOC
                            CRL
                                            Instructions for CRL.LIB
  CUG-006.7
                8 K
                    4F
                        81
                            CRL
                                     .LIB
                                            Macros for generating CRL files
  CUG-006.8
                2 K
                       46
                                     .LIB
                    DD
                            CSYM
                                            Symbol file for CRL.LIB
  CUG-006.9
                1 K
                    9C B3
                            DEFFMODS.HRM
                                            Tutorial for mods in STDLIB1/2
  CUG-006.10
                1 K
                    18 23
                            FACT
                                     . MOU
                                            Factorial program in MOUSE
  CUG-006.11
               13K
                    63 51
                            GRAVT100.C
                                            ANSI Graphics for VT100
  CUG-006.12
                9 K
                    C7
                        7A
                            GRAVT100.CRL
                                            ANSI Graphics for VT100
                                     .ASM
  CUG-006.13
                3 K
                    DE 3D
                            IOFUN
                                            ASM version of C I/O functions
  CUG-006.14
                5K
                    C6 85
                            MACHINE .ASM
                                            ASM CRL functions, memory block, etc.
  CUG-006.15
                5K
                    22
                        A2
                            MOUSE
                                     .C
                                            Interpereter from BYTE
CUG-006.16
                1 K
                     93 EC
                                     .C
                            NTOI
                                            Small number crunching functions
                                     .C
  CUG-006.17
                1 K
                    11
                       1 A
                            IOTO
                                            Small number crunching functions
  CUG-006.18
                4K
                    F4 EB
                            PRVLIB
                                     . C
                                            Misc. functions
                                     .C
  CUG-006.19
                5K
                    F3
                        F1
                            QUEUE
                                            FIFO Functions
                1 K
  CUG-006.20
                    A7 9F
                            STDEF
                                     .C
                                            Def for N/OTOI GRAVT100 STRINGS UTIL1
                                     .DOC
  CUG-006.21
                4K
                    F9 86
                            STDIO
                                            Instructions for STDIO
                                            Simulated UNIX I/O redirection
                2K
                     B5 4D
                                     .LIB
  CUG-006.22
                            STDIO
                5K
                     00
                        41
                            STDIO
                                            Simulated UNIX I/O redirection
  CUG-006.23
                                     .SRC
```

```
CUG-006.24
              7 K
                  6E CC
                                   .C
                                         Mod lib for MOUSE WP XTRINS
                          STDLIB1
             20K
                  C3 CE
                          STDLIB2 .C
                                         Mod lib for MOUSE WP XTRINS
CUG-006.25
              4K
                  70 4B
CUG-006.26
                          STRFUN
                                   .ASM
                                         ASM vers of C string functions
                  01 DD
CUG-006.27
              5K
                          STRINGS
                                  . C
                                         String manipulation package
                                         String manipulation package
CUG-006.28
              3 K
                  CA 70
                          STRINGS .CRL
              2 K
                  86 95
                                   .C
                                         Defs for files listed at STDEF
CUG-006.29
                          SYSTEM
                  67 C4
                                   . MOU
CUG-006.30
              1 K
                          TEST
                                         Test program for MOUSE, produces bug
                  0C F0
                                   .C
CUG-006.31
              3 K
                          UTIL1
                                         Small functions
              1 K
                  Fc 1C
CUG-006.32
                          XTRINSLB.CRL
                                         Bit manipulation functions
                  6A D9
CUG-006.33
              7 K
                          XTRINSLB . MAC
                                         Bit manipulation functions
CUG-006.34
             20 K
                  B2 B8
                          XTRINSLB.PRN
                                         Bit manipulation functions
CUG-007.1
              1 K
                  3F 11
                          CALHOUN . RMK
                                         Author's comments on RANDOMX
                                         Almost universal console I/O pkg
CUG-007.2
              3 K
                  CF 21
                          CIO
                                   .C
                                   .C
CUG-007.3
              1 K
                  FA 83
                          COEFSET
                                         Test & initialize floating-point const
CUG-007.4
              7 K
                  9A A7
                          CTRIG
                                   .C
                                         Trig functions using FLOATXT
                                   .DOC
                  AB 20
              5K
                          CTRIG
                                         Instructions for CTRIG.C
CUG-007.5
CUG-007.6
              7 K
                  F1 A1
                          DIO
                                   .C
                                         Simulated UNIX directed I/O
                                         Simulated UNIX directed I/o
CUG-007.7
              1 K
                  26 B7
                          DIO
                                   . H
CUG-007.8
              1 K
                  25 D9
                          FLEVAL -
                                   .C
                                         Floating-point pkg evaluation program
                                   .C
CUG-007.9
              8 K
                  4E 3A
                          FLOAT
                                         BDS C Standard Floating-point pkg
                  C2 5E
CUG-007.10
              7 K
                                   .DOC
                                         Instructions for FLOAT.C
                          FLOAT
              1 K
                  7 F
                     86
                          FLOATSUM.C
                                         Extentions to float package
CUG-007.11
             10K
                  E6 76
                          FLOATXT .C
CUG-007.12
                                         Extentions to float package
CUG-007.13
             10K
                  48 8F
                          FLOATXT
                                   .DOC
                                         Instructions for FLOATXT.C
CUG-007.14
             17K
                  89 21
                          LIB
                                   .C
                                         Function pkg, mostly $ and cents
              6 K
                  8D FA
                                   .C
CUG-007.15
                          LONG
                                         Long integer package for BDS C
                                   .CRL
              3 K
                  C1 D4
                                         Long integer package for BDS C
CUG-007.16
                          LONG
              4K
                  B7
                     9E
                                   .DOC
                                         Instructions for LONG.C
CUG-007.17
                          LONG
              1 K
                  73 32
CUG-007.18
                          LONGCODE.CRL
                                         Long integer package for BDS C
CUG-007.19
             10K
                  4A 9E
                          LONGCODE.MAC
                                         Long integer package for BDS C
CUG-007.20
             22K
                  1D BB
                          LONGCODE PRN
                                         Long integer package for BDS C
CUG-007.21
              1 K
                  9D 6C
                          LONGCODE.REL
                                         Long integer package for BDS C
                  C3 7B
CUG-007.22
             12K
                          RANDOMX .C
                                         Package to access disk as virtual mem
CUG-007.23
              9 K
                  78 71
                          SCOPE
                                   .C
                                         Full screen editing, manipulation pkg
CUG-007.24
              2 K
                  F4 30
                          TESTTRIG.C
                                         Test demo for CTRIG package
CUG-008.1
             10K
                  3C D9
                          CLOGS
                                   .C
                                         Log functions
CUG-008.2
              5K
                  99 15
                          CLOGS
                                   .CRL
                                         Log functions
                                   .DOC
CUG-008.3
              5K
                  13 B9
                          CLOGS
                                         Documentation of log functions
CUG-008.4
              1 K
                  26 DD
                          COEFSTAT.C
                                         FP to octal conversion
CUG-008.5
                  00 OF
                          COEFSTAT.CRL
              1 K
                                         FP to octal conversion
                  AF FB
CUG-008.6
              8K
                          CTRIG
                                   .C
                                         Trig functions
                  2C A6
CUG-008.7
              5K
                          CTRIG
                                   .CRL
                                         Trig functions
CUG-008.8
              6 K
                  CA AA
                          CTRIG
                                   .DOC
                                         Documentation of trig functions
                  93 35
CUG-008.9
             12K
                          DEFF
                                   .CRL
                                         DEFF with FLOAT+44 fncts added
CUG-008.10
              5K
                  E2 07
                          FI
                                         File directory & backup
                                   .C
CUG-008.11
             10K
                  06 OC
                          FI
                                   .COM
                                         File directory & backup
CUG-008.12
              3 K
                  BO.
                     BA
                          FIO
                                   . 1
                                         K&R code
CUG-008.13
              2K
                  AB BB
                          FIO
                                   .2
                                         K&R code
CUG-008,14
              5K
                  DB C4
                          FIO
                                   .3
                                         . K&R code
CUG-008.15
             10K
                  18 FE
                                         Upgraded FP package
                          FLOAT+44.C
                          FLOAT+44.CRL
CUG-008.16
              6 K
                  CB BB
                                         Upgraded FP package
CUG-008.17
             11K
                  84 2C
                          FLOAT+44.DOC
                                         Documentation for FP package
CUG-008.18
                  69 C4
              5K
                          FORM
                                   .CPM
                                         CP/MUG submission form
CUG-008.19
              2K
                  AA 76
                          NEWFLVAL.C
                                         Test prog for FP functions
                  D1 07
CUG-008.20
              9 K
                          NEWFLVAL.COM
                                         Test prog for FP functions
              2 K
                  60 6D
CUG-008.21
                          NEWFLVAL.CRL
                                         Test prog for FP functions
CUG-008.22
              2K
                  89 3C
                          TESTCLOG.C
                                         Test prog for CLOGS
CUG-008.23
             12K
                  D5 r
                          TESTCLOG.COM
                                         Test prog for CLOGS
              2K
CUG-008.24
                  11
                     BA
                          TESTCLOG.CRL
                                         Test prog for CLOGS
              2K
                  30 C2
CUG-008.25
                          TESTTRIG.C
                                         Test prog for CTRIG functions
CUG-008.26
             13K
                  CO 35
                          TESTTRIG.COM
                                         Test prog for CTRIG functions
              2K
                  7E B8
CUG-008.27
                          TESTTRIG.CRL
                                         Test prog for CTRIG functionsC
              4K
                  BO 28
C --- 009.1
                          BINSHEX .C
                                         Biner to hex ASCII convertor
```

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39 D6
                                            Curly brace checker
  CUG-009.2
                1 K
                             BLOCK
                                      .C
                     BA 9F
  CUG-009.3
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                             BYTEBNCH.C
                                            Benchmrk program ala BYTE
                3 K
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  CUG-009.4
                            CBC
                                      . C
                                            Curly brace checker
               15K
                     E4 98
                            CHARGEN
                                     .C
                                            Imsai VIO char set generator
  CUG-009.5
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                     07
                        88
                                            Character descriptions for CHARGEN
                            CHARSET
  CUG-009.6
                     74 72
                                      .C
  CUG-009.7
                2 K
                            CMP
                                            File compare program
                     5A 9B
                                     .C
                                            DISK (CUG-DO4.18) mod for double density
  CUG-009.8
               11K
                            DDNDISK
                2K
                     FA OB
                                     .DOC
  CUG-009.9
                            ENVIRON
                                            Notes for
                                      .C
                1 K
                     5E 52
                                            Benchmark program ala Usenix Conf
  CUG-009.10
                            FIB
  CUG-009.11
                1K .
                     56
                       7 A
                             FIXCCC
                                      .ASM
                                            Mod runtime pkg for YAM & UMODEM27
                1 K
                     FC 77
                             GETC
                                      .C
                                            getc() modified for better eof ind
  CUG-009.12
                                      . C
  CUG-009.13
                4K
                     38 81
                            PRINTF
                                            _spr modified for leading O's
                                            PRO-LOG EPROM programmer driver
               12K
                     BA C4
                                      .C
  CUG-009.14
                            PROLOG
                6 K
                     11
                        D8
                                     .DOC
                                            Procedures for
  CUG-009.15
                            READ-ME
                1 K
                       10
                                      .C
                     41
                                            File printer, non-ASCII as octal
  CUG-009.16
                            SEE
  CUG-009.17
                6 K
                     36 F4
                                      .C
                                            "clink" .SYM to "vbug" format convertor
                            SYMBUG
                                      .C
                3 K
                     1D DE
                                            Enhanced spaces->tab program
                            TABIFY
  CUG-009.18
                     D4 98
                                      .C
                                            Displays file n lines at a time
  CUG-009.19
                1 K
                            TEK
                                            Fancy modem prog from UNIX sys
  CUG-009.20
               31K
                     39 AF
                            UMODEM27.C
  CUG-009.21
                            UMODEM27.DOC
                                            Documentation for UMODEM27
                2K
                    A1
                        48
                2 K
                     55 FC
                                     .C
                                            Un-delete program ?
  CUG-009.22
                            UNDEL
                2K
                     DO D7
                            UNDELETE.C
                                            Un-delete program ?
  CUG-009.23
  CUG-009.24
                     14 63
                5K
                            VTEST
                                      .C
                                            Benchmark program
                     CO 20
               21K
                            XYAMHELP.T
                                            Help file for YAM
  CUG-009.25
                    1E 70
                                     . Н
  CUG-009.26
                6 K
                            YAM
                                            Master file header for YAM system
                        2D
  CUG-009.27
                1 K
                     46
                            YAM
                                      .SUB
                                            Submit file to compile YAM
                                      .C
  CUG-009.28
                9K
                    00 81
                            YAM1
                                            Yet Annother Modem program
                7 K
                     1B 42
                            YAM2
                                      .C
                                            Yet Annother Modem program
  CUG-009.29
                                      .C
                8 K
                       BC
                                            Yet Annother Modem program
                     59
                            YAM3
  CUG-009.30
                                     .C
                     4A DF
                                            Yet Annother Modem program
  CUG-009.31
                1 K
                            YAM5
                    7 C
                       42
                                      .C
                                            Yet Annother Modem program
  CUG-009.32
                4K
                            YAM5II
  CUG-009.33
               12K
                    FD 2C
                            YAM7
                                      . C
                                            Yet Annother Modem program
                                      .FIN
  CUG-009.34
               25K
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                       45
                            YAMDOC
                                            User documentation for YAM
                1 K
                     E6
                        E3
                                      .SUB
                                            Submit file to link YAM
  CUG-009.35
                            YAML
                1 K
                    7F
                       АЗ
                            YAMPHONE.T
                                            Phone numbers used by YAM
  CUG-009.36
                1 K
                    3D 21
  CUG-009.37
                            YAMSQ
                                     . H
  CUG-009.38
                2K
                     ED 9C
                            YAMSYS
                                            YAM configuration file
                                            YAM header file for Radio Shack
  CUG-009.39
                2K
                    AB 98
                            YAMTRSII.H
  CUG-009.40
                1 K
                     48 FA
                            YAMTRSII.SUB
                                            Submit file for Radio Shack version
                                      .SUB
                1 K
                     90 52
                            UTMAY
                                            Submit file for YAM
  CUG-009.41
                2K
                     E8
                       55
                            YAMTUART.H
                                            YAM configuration file
  CUG-009.42
                        07
  CUG-009.43
                1 K
                    61
                            YAMX
                                      .SUB
                                            Submit file for YAM
                        79
                            YAMXHELP.T
                                            Short help file for YAM
  CUG-009.44
                2K
                    25
                     ED 9C
  CUG-009.45
                2K
                            YAMZ89
                                     . Н
                                            YAM configuration file
  CUG-009.46
                2K
                     41
                        57
                            YAMZ89XM.H
                                            YAM configuration file
                1 K
                    F5
                        D3
                            YMTRSII2.SUB
                                            Submit file for YAM
  CUG-009.47
                4K
                    OD B7
                                      .C
  CUG-010.1
                            CHARIO
                                            Character-oriented file I/O
                                     .C
  CUG-010.2
                8 K
                    26
                        EE
                            DIO
                                            Directed I/O
  CUG-010.3
                1 K
                     E4
                        50
                            DIO
                                      . H
                                            Header for DIO.C
                    13 26
                                     , C
  CUG-010.4
                5 K
                            FLS
                                            Ambiguous filename expander/processor
                    16 02
                                      .COM
  CUG-010.5
                9 K
                            FLS
                                            Ambiguous filename expander/processor
                                      .DOC
  CUG-010.6
                9 K
                     15 12
                            HISTRY
                                            File squeezer program history
                                      .C
                                            Used by DIO.C
  CUG-010.7
                1 K
                     93
                        B6
                            ΙO
                    D3 E7
  CUG-010.8
               20 K
                            L2
                                      .C
                                            BDS C Linker
  CUG-010.9
                        9D
                            L2
                                      .DOC
               16K
                    61
                                            BDS C Linker documentation
  CUG-010.10
               19K
                        28
                            MAKOVL
                                      . C
                     3 A
                                            Overlay builder/manager
                    09 4B
  CUG-010.11
                4K
                            SCOTT
                                      .C
                                            Misc functions
CUG-010.12
                7 K
                    03 6A
                            SQ
                                      . C
                                            File compressor program
  CUG-010.13
               14K
                    CD E5
                            SQ
                                      .COM
                                            File compressor program
                        97
  CUG-010.14
                2 K
                     10
                            SQ
                                      . H
                                            Header for File compressor prog
  CUG-010.15
                     4F 7F
                            SQCOM
                1 K
                                      . H
                                            Definitions & external decl for SQ
  CUG-010.16
                1 K
                    28 3B
                            SQDBUG
                                      . C
                                            Debugging aids for SQ & related
                1 K
                     7E 4B
  CUG-010.17
                            SQDISK
                                      .DOC
                                            Squeeze/unsqueeze quick instructions
  CUG-010.18
               23 K
                     CD EE
                            SQUEEZER.DOC
                                            Use & compilation for SQ, USQ, FLS
  CUG-010.19
                2 K
                     OB FF
                            TR1
                                     .. C
                                            Part of SQ C
```

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CUG-010.20
               13K
                     71
                        C7
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                                      .C
                                            Part of SQ.C
                            TYPESQ
                                      .C
                5K
                     CF OA
  CUG-010.21
                                            Squeezed file print program
  CUG-010.22
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                             TYPESQ
                                      .COM
                                            Squeezed file print program
  CUG-010.23
                1 K
                     BE 76
                             TYPESQ
                                      .DOC
                                            Instructions for TYPESQ
                                      .C
  CUG-010.24
                7 K
                     F9 BF
                             USQ
                                            File de-compressor program
  CUG-010.25
               10K
                     89 79
                                      .COM
                             USQ
                                            File de-compressor program
                1 K
                     93 DA
                             USQ
                                      . H
                                            Part of USQ.C
  CUG-010.26
                                            Part of USQ.C
                     A7 39
  CUG-010.27
                2K
                             UTR
                                      .C
  CUG-011.1
                2 K
                     09 16
                             AN
                                      . NRO
                                            Part of NRO.C
               16K
                     69 AD
                                     .C
                                            Disk analysis program
  CUG-011.2
                             ANYDISK
  CUG-011.3
               10K
                     9A 09
                             ANYDISK
                                     .COM
                                            Disk analysis program
                8K
                     41 BE
                            ANYDISK .DOC
                                            Documentation for ANYDISK.C
  CUG-011.4
                8 K
                     14 CB
                             ANYDISK .OUT
                                            Part of ANYDISK.C
  CUG-011.5
                     EA C9
                                            Part of DISKDOC.C
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                             DDOCLIB
  CUG-011.6
                             DDOCSYS .C
                                            Part of DISKDOC.C
                5K
                     81 6F
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                                     .C
                     8C 13
                                            Disk Doctor program (DDJ Apr-82)
               18K
                             DISKDOC
  CUG-011.8
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                     7F E9
                             DISKDOC .COM
                                            Disk Doctor program (DDJ Apr-82)
  CUG-011.9
                                     .DOC
                                            Documentation for DISKDOC.C
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                     C1 3F
                             DISKDOC
  CUG-011.10
                                     .SYM
                4K
                     01
                        94
                             DISKDOC
                                            Part of DISKDOC.C
  CUG-011.11
                1 K
                     58 D8
                             MAN
                                      .NRO
                                            Part of NRO.C
  CUG-011.12
  CUG-011.13
                5K
                     86 78
                             NRO
                                      .C
                                            New RUN-OFF with user macros
                     AO CB
                                      .COM
                                            New RUN-OFF with user macros
  CUG-011.14
               23 K
                             NRO
                                      .DOC
               16K
                     B8 3C
                                            Documentation for NRO.C
                            NRO
  CUG-011.15
                                     . H
  CUG-011.16
                6 K
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                             NRO
                                            Header part of NRO.C
                                            Part of NRO.C
               11K
                     EC 60
                                      .NRO
  CUG-011.17
                            NRO
  CUG-011.18
               12K
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                            NROCMD
                                      .C
                                            Part of NRO.C
                     2A C3
                                      .C
                                            Part of NRO.C
  CUG-011.19
                1 K
                            NROCOM
  CUG-011.20
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                     40 59
                            NROMAKE .SUB
                                            Part of NRO.C
                                     . C
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                     4F B7
                                            Part of NRO.C
  CUG-011.21
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  CUG-011.22
                1 K
                            SKELETON.NRO
                                            Skeleton NRO ?
                2K
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  CUG-012.1
                            AR1
                                            Archive Vers. 1 source
  CUG-012.2
               17K
                     95 BC
                            AR1
                                      .COM
                                            Archive Vers. 2 object
  CUG-012.3
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                     48 B5
                            AR1
                                     .DOC
                                            Documentation for Archive
  CUG-012.4
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                    F4 9B
                            AR1/UTIL.BDS
                                            Part of AR1.BDS
                                     . H
                    A9 6B
  CUG-012.5
                1 K
                            DATE
                                            Part of AR1.BDS
                            DATE/SSI.BDS
                    63 98
                                            SSI board date & time routines
  CUG-012.6
                3 K
                                     .C
  CUG-012.7
               12K
                     C4 61
                            DIO
                                            Directed I/O (CUG-22.3)
  CUG-012.8
               12K
                    CD 5A
                            DIO
                                      .DOC
                                            Documentation for DIO.C
                    35 BB
                            DIO
  CUG-012.9
                3 K
                                      . H
                                            Header for DIO.C
  CUG-012.10
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                    BO BF
                            PP
                                      .C
                                            Preproc prog (#include, #define)
                                            Preproc prog (#include, #define)
  CUG-012.11
               12K
                     B8 E5
                            PP
                                      .COM
                7 K
                    2A 02
                            PP
                                     .DOC
  CUG-012.12
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                            TOD
                                     .BDS
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  CUG-012.13
  CUG-012.14
                6 K
                    2B 7B
                            TR
                                      .C
                                            Translit software tool source
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                            TR
                                      .COM
                                            Translit software tool object
  CUG-012.16
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                                            Documentation for Translit
                     F8 88
  CUG-013.1
                            A-OPEN
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  CUG-013.2
                2K
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                            BDSCIO+
                                      . H
                                            Additions to standard BDSCIO.H
                                     .COM
                     E2 75
  CUG-013.3
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                            D
                                            Directory program
  CUG-013.4
                3 K
                     E4 22
                            DMAP
                                      . C
                                            Disk block allocation display prog
                                     .COM
  CUG-013.5
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                     91
                        64
                            DMAP
                                            Disk block allocation display prog
                        55
  CUG-013.6
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                    21
                            FACSPLOT.C
                                            Demo prog using HIPLOT.C
  CUG-013.7
                2 K
                        86
                            FI01
                                            K&R std fopen(), fclose() for BDSC
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                                      . H
                        43
                                            K&R std fopen(), fclose() for BDSC
  CUG-013.8
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                    76
                            FI02
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                     8F BA
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  CUG-013.9
                8 K
                                      .H
                                            K&R std fopen(), fclose() for BDSC
                    6D F1
CUG-013.10
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                            GETC
                                      .C
                                            K&R std getc() for BDSC
  CUG-013.11
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                    29 DO
                            HIPLOT
                                      .C
                                            Lib fncts for Houston Inst plotter
                    33 26
                                     .CRL
  CUG-013.12
                5K
                            HIPLOT
                                            Lib facts for Houston Inst plotter
  CUG-013.13
                2K
                    C8 E6
                            HIPLOT
                                            Part of HIPLOT.C
                                      . H
  CUG-013.14
               13K
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                            MARTZ-AD.C
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                     BB 21
  CUG-013.15
               13K
                            MARTZ-EI.C
                                            MARTZLIB functions E-I
  CUG-013.16
               10K
                     63 D9
                            MARTZ-JR.C
                                            MARTZLIB functions J-R
  CUG-013.17
                7 K
                     B2 DA
                            MARTZ-SZ.C
                                            MARTZLIB functions S-Z
```

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43 general-purpose functions
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                  B1 2A
                          MARTZLIB.C
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CUG-013.19
             12K
                  A9 29
                          MARTZLIB.CRL
                                         43 general-purpose functions
              1 K
                  97 9E
                                   .C
                                         BDSC putc() with output dump
                          PUTC
CUG-013.20
                                         Random & append file I/O
                          RANIOLIB.C
              9K
                  71 53
CUG-013.21
                                         BDSC getc() explained
                  C6 91
                          RAWGETC .C
CUG-013.22
              1 K
              2 K
                  2B 1A
                                         Help file for Citadel CBB
                                   .HLP
                          AIDE
CUG-014.1
                                         Menu file for Citadel CBB
              1 K
                  OF 36
                                   .MNU
                          AIDE
CUG-014.2
                                         Computer Bulletien Board Program
                          CITADEL .COM
CUG-014.3
             41 K
                  32 2C
             17K
                                         Citade! CBB configure prog object
                  CA 80
                          CONFIGUR.COM
CUG-014.4
                                         Citadel CBB configuration table
                          CTDLCNFG.SYS
CUG-014.5
             16K
                  61
                     3 B
                  8C 07
                          CTDLOPT .MNU
                                         Menu file for Citadel CBB
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CUG-014.6
                                         Help file for Citadel CBB
              2 K
                  57 C5
                          DOHELP
                                   .HLP
CUG-014.7
                                         Menu file for Citadel CBB
                  C6 D7
                                   . MNU
              1 K
                          EDIT
CUG-014.8
                                         Help file for Citadel CBB
              1 K
                  04 2F
                          ENTER
                                   .HLP
CUG-014.9
                                         Menu file for Citadel CBB
                                   .MNU
CUG-014.10
              1 K
                  02 9D
                          ENTOPT
                                         Blurb file for Citadel CBB
CUG-014.11
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                  44 D6
                          ENTRY
                                   .BLB
                          EXTENDED.HLP
                                         Help file for Citadel CBB
CUG-014.12
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                  1A 8C
                                   .HLP
              2K
                  82 87
                          FILES
                                         Help file for Citadel CBB
CUG-014.13
                                         Help file for Citadel CBB
                  CC 2C
                                   .HLP
              1 K
                          GOTO
CUG-014.14
                                         Help file for Citadel CBB
              1 K
                  1A 81
                          HELPOPT .HLP
CUG-014.15
                                         Help file for Citadel CBB
                  1E 19
                                   .HLP
                          HIDDEN
CUG-014.16
              1 K
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                  5D 71
                          L2
                                   .COM
                                         CUGroup linker for BDS C
CUG-014.17
                                         Help file for Citadel CBB
                          LOCALBBS.HLP
CUG-014.18
              1 K
                  37 E1
                                   .HLP
                                         Help file for Citadel CBB
              1 K
                  59 A5
                          LOGIN
CUG-014.19
                                         Help file for Citadel CBB
              1 K
                  36 6C
                          LOGOUT
                                   .HLP
CUG-014.20
                  B2 7B
                                   .HLP
                                         Help file for Citadel CBB
              1 K
                          MAIL
CUG-014.21
                          MAINOPT .MNU
                                         Menu file for Citadel CBB
CUG-014.22
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                  3F CF
                                         Blurb file for Citadel CBB
                          NEWROOM .BLB
CUG-014.23
                  E6 11
              1 K
                                   .BLB
                                         Blurb file for Citadel CBB
              1 K
                  9A C5
                          NOCHAT
CUG-014.24
                                         Blurb file for Citadel CBB
CUG-014.25
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                  CE 65
                          PASSWORD.BLB
              1 K
                  36 67
                          READ
                                   .HLP
                                         Help file for Citadel CBB
CUG-014.26
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                                         Menu file for Citadel CBB
                  E5 92
                          READOPT
CUG-014.27
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                          SUMMARY .HLP
                                         Help file for Citadel CBB
                  F8 5D
CUG-014.28
              1 K
                                         Blurb file for Citadel CBB
CUG-014.29
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                          WCDOWN
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                                         Blurb file for Citadel CBB
                  99
                     06
                          WCUPLOAD.BLB
CUG-014.30
              1 K
                                         Main Configure program for Citadel
CUG-015.1
             12K
                  50 EB
                          210CONFG.C
             20 K
                  3D 5D
                          210CTDL .C
                                         Citadel Computer Bulletien Board prog
CUG-015.2
                          210CTDL .H
                                         Header file for all Citadel progs
CUG-015.3
             18K
                  AD 3D
                                         Userlog code for Citadel
                                   .C
CUG-015.4
             17 K
                  AF A9
                          210 LOG
CUG-015.5
             10K
                  DF 24
                          210MISC .C
                                         Miscellaneous code for Citadel
                                         Modem/console code for Citadel
                  23 CE
                          210MODEM.C
CUG-015.6
             26 K
                                   .C
             32K
                  1D C4
                          210MSG
                                         Message file code for Citadel
CUG-015.7
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                  85 F3
                          210ROOMA.C
                                         Room & misc code for Citadel
CUG-015.8
                                         Room & misc code for Citadel
CUG-015.9
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                  10 96
                          210ROOMB.C
                  21 98
                          AABUYME .DOC
                                         Overview of Citadel system
CUG-015.10
              5K
                                         Country codes for Citadel config
CUG-015.11
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                  4E 45
                          COUNTRY .DOC
                                         Overview of Citadel code structures
                     05
                                   .DOC
CUG-015.12
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                          HACK
                          HISTORY .DOC
CUG-015.13
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                                         Brief history of Citadel package
                                         Installing Citadel on a new system
                  EF 21
                          INSTALL .DOC
CUG-015.14
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                  95 51
                          OPERATN .DOC
                                         Documentation on using Citade!
CUG-015.15
              3 K
              1 K
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                          PRODUCTN.SUB
                                         SUBMIT file to recompile Citadel
CUG-015.16
CUG-015.17
              1 K
                  GO OD
                          WARRANTY.DOC
                                         Universal warranty
CUG-016.1
              3 K
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                          BC
                                   .C
                                         Binary calculator
                  3E 9B
                          BC
CUG-016.2
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                                   .DOC
                                         Instructions for BC.C
                                   .SUB
CUG-016.3
              1 K
                  40 1B
                          BC
                                         Submit file for BC.C
CUG-016.4
                  E2 BB
                          BCANLYZ
                                  .C
                                         Functions used by BC.C
             10K
                  72 10
                                   . H
                                         Header file for BC.C
CUG-016.5
              3 K
                          BCDEF
                                         Changes for SQ/USQ
CUG-016.6
              2 K
                  3D BD
                          CHANGES
                                   .DQC
                                   . C
                     8B
                                         Chops off from front of file
CUG-016.7
              2 K
                  37
                          CHOP
                                   .c
CUG-016.8
              5K
                  AF BE
                          COUNT
                                         Counts chars, words, lines
                                   .ASM
CUG-016.9
             12K
                  41 26
                          CRCK4
                                         CRC Check program source
                                   .COM
CUG-016.10
              2K
                  B8 F5
                          CRCK4
                                         CRC Check program
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.ca
                     F6 26
                                            Wildcard preprocessor for SQ/USQ
  CUG-016.12
                4K
                            FLS
                                            History of SQ/USQ
  CUG-016.13
                6 K
                     00 00
                             SQHIST
                                      .DQC
                                      . C
                                            DIR for ISIS single-density
                3 K
                     75 66
                            IDIR
  CUG-016.14
                                      .DOC
                                            Instructions for IDIR.C
  CUG-016.15
                1 K
                     2A
                        B2
                             IDIR
                     14 4D
                                      .CQ
                                            I/O Functions used by SQ/USQ
                1 K
                            ΙO
  CUG-016.16
                                            Mailing label pre-processor, 4-up
                                      .C
  CUG-016.17
                5K
                     31
                        35
                             LABELS
                                            Creates char sets for Microangelo bd
                                      .C
                     DC 87
                            MCROANG
               11K
  CUG-016.18
                                            Header file for MCROANG.C
                7 K
                     A1
                        96
                            MCROANG .H
  CUG-016.19
                                     . C
                                            MX-80 Printer driver functions
  CUG-016.20
                4K
                     65 4E
                            MXPRINT
                                     .DOC
                1 K
                     7A 53
                            MXPRINT
                                            Instructions for MXPRINT.C
  CUG-016.21
                                            Header file for MXPRINT.C
                     1E 25
                                     . H
                6 K
                            MXPRINT
  CUG-016.22
                     12 DD
                                      . C
                                            Full screen disk sector editor
               12K
                            SE
  CUG-016.23
                                            Instructions for SE.C
                                      .DOC
                     9D F5
  CUG-016.24
                3 K
                            SE
                     97 FA
                                            Submit file for SE.C
                                      .SUB
                1 K
                            SE
  CUG-016.25
                                            Fancy screen input function
                                      .C
                5K
                     92
                        E8
                            SENTER
  CUG-016.26
                                      .ca
                                            File Squeezer
  CUG-016.27
                5K
                     82 9B
                            SQ
                                            Header file for SQ.CQ
  CUG-016.28
                2 K
                     EF D9
                            SQ
                                      . HQ
                                            Part of SQ.CQ
                1 K
                     OF FO
                            SQCOM
                                      . HQ
  CUG-016.29
                1 K
                     EA 5A
                            SQDEBUG
                                      .CQ
                                            Debug function for SQ/USQ
  CUG-016.30
                            SQUEEZER.DOC
                                            Instructions for SQ/USQ
                        42
  CUG-016.31
               23 K
                     13
                                            First-pass functions of SQ
                     3D 35
                                      .ca
                2K
                            TR1
  CUG-016.32
                                            Second-pass functions of SQ
  CUG-016.33
                                      .ca
                9 K
                     99 AC
                            TR2
                     FE 42
                                      .COM
                                            File Unsqueezer
               10K
                            USQ
  CUG-016.34
                                      .ca
                                            File Unsqueezer
  CUG-016.35
                6 K
                     80 F3
                            USQ
                                      .HQ
                                            Header file for USQ.CQ
                1 K
                     08 B4
                            USQ
  CUG-016.36
                                      .CQ
                                            Functions used by USQ
  CUG-016.37
                2 K
                     80
                        3 E
                            UTR
                            XP R
                                      . C
                                            File xfer via CP/M PUN: and RDR:
                     67
                        CB
                8 K
  CUG-016.38
                                      . C
                                            Pretty-printer for C programs
                8 K
                        5B
  CUG-017.1
                     59
                            CB
                                            Char. oriented file I/O
  CUG-017.2
                4K
                    0D B7
                            CHARIO
                                      . C
                                            Copies file into current directory
  CUG-017.3
                3 K
                     9E A7
                            CP
                                      .C
  CUG-017.4
                8 K
                    26
                        EE
                            DI 045
                                      .C
                                            DIO V. 1.45 removes certain bugs
                                      . H
                                            Header file for DIO45.C
  CUG-017.5
                1 K
                    E4 50
                            DI045
                                      .C
                    D3 E7
                            L2
                                            Improved linker for BDS C CRL format
  CUG-017.6
               20K
                                      .DOC
                                            Instructions for linker
                        D9
                            L2
  CUG-017.7
               16K
                    61
                                      .COM
                                            META4 Compiler from DDJ
  CUG-017.8
               16K
                    B3
                        FD
                            M4
                                            Variation of L2 to make overlay files
  CUG-017.9
               19K
                    3A 28
                            MAKOVL
                                      .C
  CUG-017.10
                2K
                    64 C1
                            META4
                                     .DOC
                                            Instructions for META4 Compiler
                                      .M4
                                            Part of META4 compiler
  CUG-017.11
                7 K
                    05 85
                            META4
                                      .MET
                    05 B6
                            META4
                                            Part of META4 compiler
  CUG-017.12
                6 K
                    FB B6
                                      . C
                                            Part of META4 compiler
                            META40
  CUG-017.13
                8 K
                                      .Н
                                            Part of META4 compiler
  CUG-017.14
                1 K
                    FE 57
                            META40
                                            Part of META4 compiler
                                      .C
  CUG-017.15
                7 K
                    7 C
                        04
                            META41
                            META42
  CUG-017.16
                7 K
                    95 2B
                                      . C
                                            Part of META4 compiler
  CUG-017.17
                2K
                     53
                        47
                            META43
                                      .C
                                            Part of META4 compiler
                        47
                            META4COM.SUB
                                            Submit for META4 compiler compile
  CUG-017.18
                1 K
                     59
                        77
                            META4LNK.SUB
                                            Submit for META4 compiler link
  CUG-017.19
                1 K
                    46
                                            Alter BDS C to return w/o warm boot
                    75 FF
                                      .C
  CUG-017.20
                3 K
                            NOBOOT
                                            Miscellaneous function library
  CUG-017.21
                4K
                    09 4B
                            SCOTT
                                      .C
                            USERCODE.C
                                            Extend file I/O with user/filename.ext
  CUG-017.22
                3 K
                    5E
                        0 B
                        48
                            XC
                                      .C
                                            Cross-reference for C programs
  CUG-017.23
               21K
                    3 D
  CUG-017.24
                     19 7E
                            XC
                                      .DOC
                                            Instructions for cross-reference
                1 K
                                      .ASM
  CUG-018.1
                2 K
                    FO A7
                            CABORT
                                            abort() - similar to longjump()
                                      .CRL
                                            abort() - similar to longjump()
  CUG-018.2
                1 K
                    68 85
                            CABORT
  CUG-018.3
               13K
                    25 57
                            CORE1
                                            PBASE core image
  CUG-018.4
                2 K
                     E4
                        DB
                            ENVIRON
                                      .DOC
                                            Environment doc, suggests 48K ram
                                            Part of PISTOL.COM
  CUG-018.5
                    7A 8E
                            PBASE
               17 K
                                      .C
CUG-018.6
                     92 B1
                            PISTB
                                            Part of PISTOL.C
                8 K
                            PISTB
                                      .CRL
                                          Part of PISTOL.C
  CUG-018.7
                     E0 16
                6 K
                                      .C
  CUG-018.8
                3 K
                    05 3B
                            PISTC
                                            Part of PISTOL.C
                     08 27
                                      .CRL
                                            Part of PISTOL.C
  CUG-018.9
                2 K
                            PISTC
                    36 C6
                                      .C
  CUG-018.10
                5K
                            PISTD
                                            Part of PISTOL.C
                                            Part of PISTOL.C
  CUG-018.11
                5K
                     B1
                        CE
                            PISTD
                                      .CRL
  CUG-018.12
                                     .C
                                            Part of PISTOL.C
                3 K
                     5F
                        E9
                            PISTE
  CUG-018.13
                2 K
                     4E AA
                            PISTE
                                      .CRL
                                            Part of PISTOL.C
```

```
6 K
                    9D 45
                            PISTF
                                     .C
                                            Part of PISTOL.C
 CUG-018.14
                4K
                    38 42
                                     .CRL
                                            Part of PISTOL.C
 CUG-018.15
                            PISTF
                1 K
                    ED A8
                            PISTGEN
                                     .SUB
                                            Submit file to generate PISTOL
 CUG-018.16
 CUG-018.17
                4K
                    FE D1
                            PISTOL
                                     .C
                                            Portable stack oriented language
               18K
                    33 20
                            PISTOL
                                     .COM
                                            Portable stack oriented language
  CUG-018.18
  CUG-018.19
                2K
                    FD 8C
                            PISTOL
                                     .CRL
                                            Portable stack oriented language
                    E4 47
                                     .DOC
               39K
                            PISTOL
                                            Documentation for PISTOL
  CUG-018.20
                    E8 BD
                4K
                            PISTOL
                                     . H
                                            Constants & externals for PISTOL
 CUG-018.21
                                     .PAS
                                            Pascal version for DEC-20
               41 K
                    9F 4E
  CUG-018.22
                            PISTOL
                    DE 46
                1 K
                            PISTSUB .SUB
                                            Submit to compile & link PISTOL
  CUG-018.23
                    C8 81
                            SESSIONO.DOC
                                            Example session of basic operations
 CUG-018.24
                5K
                    CB 3F
                                            Example session of more operations
                9 K
                            SESSION1.DOC
 CUG-018.25
                    F7 21
 CUG-019.1
                7 K
                            BDSCI01
                                     . Н
                                            Header used by various programs
                4K
                    F6 27
                            CALL
                                     .C
                                            Smart callout for Hayes modem
 CUG-019.2
                                            Command driver for C Compiler
 CUG-019.3
                       67
                                     . C
                3 K
                    E7
                            CC
                    3A CB
                                            Include file for DATE*.C
                1 K
                            CLOCK
                                     . H
 CUG-019.4
 CUG-019.5
                2 K
                    5A 6C
                            DATE
                                     .C
                                            Computime clock board read routines
                                     .C
                                            Computime clock board update routines
 CUG-019.6
                1 K
                    24 68
                            DATEUP
                                     .C
 CUG-019.7
                2 K
                    11
                        84
                            DDIR
                                            Directory lister, flavor #4
                                     .C
                            DOGLOB
 CUG-019.8
                1 K
                    3A 8C
                            DOGLOB
                                     . H
                                            Include file for DOGLOB.C
 CUG-019.9
                2K
                    4C DB
                            DSW
                                     . C
                                            Selective file remover uses switches
 CUG-019.10
                                     . H
                    5A A1
                1 K
                            FCB
                                            Header used by various programs
 CUG-019.11
                                     .C
 CUG-019.12
                2 K
                    E0 91
                            FILES
                                            Used by various programs
 CUG-019.13
               25K
                    46 E6
                            FLAKEY
                                     .DAT
                                            Test data for plot code
                3 K
                    09 83
                            FSEEK
                                     . C
                                            Buffered I/O seek used by MORE.C
 CUG-019.14
                                     .C
 CUG-019.15
                1 K
                    38 A1
                            FSTAT
                                            Stat of disk file used by various prog
                                     .C
                3 K
                    C3 DA
                            IF
                                            Conditional execute commands in SUB
 CUG-019.16
                                     .C
               20K
                    ED 07
                            L2
                                            L2 Linker w/bugs fixed and MP/M
 CUG-019.17
                                     .C
                       28
 CUG-019.18
                2K
                    77
                            LDIR
                                            Directory lister, flavor #1
                                     .C
 CUG-019.19
               12K
                    41
                        88
                            LOCAL
                                            Used by various programs
 CUG-019.20
                3 K
                    D9
                       CA
                            LOCAL
                                     . H
                                            Include file for LOCAL.C
                                     .C
 CUG-019.21
                3 K
                    C2 AA
                            MORE
                                            Paging file lister
                                     .C
 CUG-019.22
                9 K
                    2F
                       E1
                            PLOT
                                            Epson MX-80 Graftrax driver
                                     . H
                3 K
                    66 E4
                            PLOT
                                            Globals for PLOT.C
 CUG-019.23
                                     .INC
                        8D
 CUG-019.24
                1 K
                    61
                            PLOT
                                            Include file for PLOT.C
 CUG-019.25
                4K
                    OD 92
                            SDIR
                                     .C
                                            Directory lister, flavor #3
                                     .C
 CUG-019.26
                1 K
                    04 58
                            SETUP
                                            Setup function keys on Teleray-10
                    C5 ED
                                     .C
 CUG-019.27
               14K
                            SH
                                            A Shell for CP/M
 CUG-019.28
                3 K
                    4E F9
                            SH
                                     .DOC
                                            Instructions for SH.C
 CUG-019.29
                2K
                    15 33
                            SH
                                     .NOT
                                            Implementation note on SH.C
                    EE 77
 CUG-019.30
                1 K
                            SKLOCAL
                                     . C
                                     .DAT
 CUG-019.31
                1 K
                    5C
                       3 E
                            SYSTEMS
                                            Sample data file for CALL.C
                    E2 8D
 CUG-019.32
               22K
                            TEL
                                     .C
                                            Very souped-up version of TELNET
 CUG-019.33
               21K
                    38 E1
                            TL370
                                     . C
                                            TELNET modified for IBM TSO
                                     . C
 CUG-019.34
                3 K
                    CE 3F
                            XD
                                           File dumper - nicer than DUMP
 CUG-019.35
                    79 86
                            ZDIR
                                     . C
                3 K
                                            Directory lister, flavor #2
                                           Mod of BIGDIR.C, like STAT
 CUG-020.1
                6 K
                    OB 33
                                     .c
                                     .C
 CUG-020.2
                    C7 1F
                            BDOSCOM
                8 K
                                           CP/M Manipulation functions
 CUG-020.3
                2K
                    4D 77
                            BIOS
                                     .LIB
                                            Modified BIOS() function
 CUG-020.4
                    8C B8
                            BS
                                     .USE
                                           Using blocked records via RY
                9 K
                            DISKIO
                                     .C
 CUG-020.5
                2 K
                    A2
                       59
                                            Disk I/O routines
                                     .DCL
 CUG-020.6
                       33
                            DISKIO
                1 K
                    1F
 CUG-020.7
               17K
                       D1
                            DISKU
                                     .C
                    E7
                                            Updated disk utility
 CUG-020.8
                       1 C
                            DPATCH
                                     .C
                3 K
                    A1
                                            Disk patcher
 CUG-020.9
                       37
                                     .ASM
                2 K
                    F9
                            G80
                                            Machine language library functions
CUG-020.10
                9 K
                    BF CF
                            G81
                                     .ASM
                                            ASM vers. fill mem, rotate string, etc
 CUG-020.11
                4K
                    B4 E8
                            G82
                                     .ASM
                                           ASM yers. swap hi/lo, wait() status, etc
                    OD D9
 CUG-020.12
                            GCO
                                     . C
               10K
                                            Inverse char set for Exidy Sorcerer
                                     .ASM
 CUG-020.13
                       77
                            GZO
                7 K
                    E1
                                            Cursor functions for Exidy Sorcerer
 CUG-020.14
                8 K
                    BE E8
                            LONG
                                     .C
                                            Bugs removed, used by RY
                    BA 73
 CUG-020.15
                                     .DOC
                                            Instructions for LONG.C
                5K
                            LONG
 CUG-020.16
               10K
                    4A 9E
                            LONGCODE.MAC
                                            ASM code for Long package
 CUG-020.17
                3 K
                    DF D4
                                      CR
                                            TO36 8 01:000E
                             X
```

```
1 K
                    B6 7F
                            MAKEDEF
                                            Part of MAKESYS
 CUG-020.18
                                     . H
                7 K
                    DB 73
                            MAKEHEX .C
                                            Part of MAKESYS
 CUG-020.19
                    8D 45
 CUG-020.20
                4K
                            MAKELIB .C
                                            Part of MAKESYS
                    CD 38
                                            Part of MAKESYS
 CUG-020.21
                5K
                            MAKEPARM.C
 CUG-020.22
                4K
                    BE CD
                            MAKESYS
                                     .C
                                            Modifies CP/M 2.2 BIOS easily!
                            MAKESYS
                                     .DOC
                1 K
                    B3 OF
                                            Instructions for MAKESYS
 CUG-020.23
                1 K
                    01 OC
                            MAKESYS .SUB
                                            Submit file for MAKESYS
  CUG-020.24
                                            Updated RANDOMX.C
               24K
                    OE 97
                            RY
                                     .C
 CUG-020.25
                                     .DOC
                7 K
                    FD 87
                            RY
                                            Instructions for RY.C
  CUG-020.26
                    58 97
                            RY
                                     . H
                                            Header file for RY.C
  CUG-020.27
                2 K
  CUG-020.28
                    6B 5B
                            RY
                                     .USE
                                            Tutorial on use of RY.C
               10K
                6 K
                    55 05
                            RYTEST
                                      .C
                                            Exercise for RY.C
  CUG-020.29
                    5E 91
                                     .LIB
                3 K
                            SCN
 CUG-020.30
                    6B 64
                            VFILE
                                      . C
                                            Block seeks of disk file
  CUG-020.31
                9 K
                    D8 74
                                     .C
                9 K
                            VIEW
                                            Disk block viewer
  CUG-020.32
                                     .C
                1 K
                    73 32
                            VMAIN
                                            Exercise for VFILE.C
  CUG-020.33
                    07 3C
                                     .C
                                            ASM -> CRL convertor
  CUG-020.34
               11K
                            YACCRL
                    87 B7
  CUG-020.35
                9 K
                            YACCRL
                                     .DOC
                                            Instructions for YACCRL.C
 CUG-021.1
               19K
                    CD 3D
                            BG
                                     .C
                                            Backgammon game
                    0E D8
                                     .C
  CUG-021.2
                8 K
                            BUGS
                                            Update from CUG-003.3
                       DO
                                      .C
                                            Casio watch game
                8 K
                    В1
                            CASIO
  CUG-021.3
                                     .REC
                1 K
                    3E 30
                            CASIO
                                            Data for CASIO.C
  CUG-021.4
                    OA 8B
                                     .C
  CUG-021.5
                6 K
                            FALLOUT
                                            Update from CUG-003.7
  CUG-021.6
               10K
                    89 E7
                            FISH
                                      .C
                                            Go fish game
                4K
                    32 B7
  CUG-021.7
                            HANGMAN
                                     .C
                                            Hangman word game
                7 K
                    F2 A2
                                     . C
 CUG-021.8
                            NLIFE
                                            Update from CUG-03.15
  CUG-021.9
               13K
                    BA OD
                            NLIFE
                                     .DAT
                                            Data for NLIFE.C
                2 K
                    93 01
                                      .CRL
                                            Part of NLIFE.C
  CUG-021.10
                            NLIFEA
  CUG-021.11
               14K
                    4E 59
                            OTHELLO .C
                                            Othello game
  CUG-021.12
                5K
                    B1 F5
                            PACDEFS .H
                                            Part of PACMAN.C
  CUG-021.13
                7 K
                    25 DD
                            PACMAN
                                      .C
                                            Pacman game
                                     .REC
  CUG-021.14
                1 K
                    3A 3D
                            PACMAN
                                            Part of PACMAN.C
 CUG-021.15
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                    78 B4
                            PACMONST.C
                                            Part of PACMAN.C
  CUG-021.16
                2 K
                    B4 70
                            PACSCORE.C
                                            Part of PACMAN.C
                            PACUTIL .C
  CUG-021.17
                9 K
                    37 C5
                                            Part of PACMAN.C
                    9B 7E
  CUG-021.18
                9 K
                            PACUTILS.C
                                            Part of PACMAN.C
  CUG-021.19
                7 K
                    F9 A5
                            PPONG
                                     .C
                                            Ping-Pong game for H/Z-19
  CUG-021.20
               11K
                    12 AC
                            RALLY
                                      .C
                                            Update from CUG-003.25
                                      .MAP
  CUG-021.21
                2 K
                    53 8E
                            RALLY
                                            Part of RALLY.C
  CUG-021.22
               13K
                    14 B2
                                      . C
                            STONE
                                            Update from CUG-003.28
                                     ; . C
  CUG-021.23
                    33 BD
                2 K
                            WAVY
                                            Wavy lines for H/Z-19
                                            Wumpus game
  CUG-021.24
                9K
                    8D C1
                            WUMPUS
                                      .C
                                     . C
  CUG-021.25
               13K
                    BB 2C
                            YAHTZEE
                                            Yahtzee dice game
  CUG-021.26
                4K
                     4A 71
                            YAHTZEE .HLP
                                            Help for YAHTZEE.C
  CUG-022.1
                1 K
                     B4 E5
                            BPTEST
                                            Page test ROFF example
  CUG-022.2
                            COPY
                1 K
                     9F 01
                                      .RIT
                                            Copyright notice
                    BF F7
  CUG-022.3
                1 K
                            DIO
                                      .H -8
                                            Directed I/O
  CUG-022.4
                2 K
                    OB 95
                                     .DOC
                            ENVIRON
                                            Hardware requirements for ROFF
  CUG-022.5
                1 K
                    3A 2C
                            EQN
                                            Equation numbering ROFF example
  CUG-022.6
                1 K
                    64 18
                            EXY1
                                            Exidy screen graphics
  CUG-022.7
                                     .SUB
                                            Exidy graphics demo submit
                1 K
                    DD 5D
                            EXYDEMO
  CUG-022.8
                    60 77
                1 K
                            FOOT
                                            Footnote ROFF example
  CUG-022.9
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                            FORM
                                            Form letter ROFF example
  CUG-022.10
                                      .COM
               17K
                    87
                        0F
                            L2
                                            CUGroup linker for BDS C
  CUG-022.11
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                     EC D5
                             LIST
                                            File lister ROFF example
  CUG-022.12
                1 K
                     BF
                       72
                            MATRIX
                                            Print motion demo for ROFF
CUG-022.13
                     DA 43
                            MX
                                            MX-80/Graftrax ROFF set-up
                6 K
  CUG-022.14
                     14 9F
                            NDIO
                                      .C
                5K
                                            Directed I/O
  CUG-022.15
                1 K
                            NEST
                                            Nested macros & strings ROFF demo
                     81 99
  CUG-022.16
                2 K
                     AA OO
                            PAGES
                                            ROFF demo
  CUG-022.17
                            ROFF4
               12K
                     53 35
                                      .C
                                            RUNOFF 4.0 Text format/print prog
  CUG-022.18
               30K
                     37 02
                            ROFF4
                                            RUNOFF 4.0 Text format/print prog
                                      .COM
                                            RUNOFF 4.0 Text format/print prog
  CUG-022.19
                7 K
                     CF AO
                             ROFF4
                                      .CRL
  CUG-022.20
                     37
               31K
                        В9
                             ROFF4
                                      .DOC
                                            Documentation for ROFF4.C
```

```
D4 C5
              9 K
                          ROFF 4
                                    . H
                                          Header for ROFF4.C
CUG-022.21
                                    .SUB
CUG-022,22
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                   66 BC
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CUG-022.23
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CUG-022.27
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CUG-022.28
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CUG-022.29
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CUG-022.30
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CUG-022.31
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CUG-022.36
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CUG-022.37
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CUG-023.7
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CUG-023.8
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CUG-023.17
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CUG-023.20
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CUG-023.22
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CUG-023.23
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CUG-024.12
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CUG-024.17
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CUG-024.18
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CUG-024.19
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                   62 D8
CUG-029.15
              6 K
                          NDIOC
                                          New directed I/O for BDS C
                                    .PAK
CUG-029.16
              9K
                   C5 A7
                          PACKC
                                          Pack program source
                   D9 6B
                                   .PAK
                                          Object of PACKC
CUG-029.17
             10K
                          PACKCOM
CUG-029.18
              5 K
                   E5 4D
                          PACKDOC
                                   .PAK
                                          Documentation for PACKC
                                   .PAK
              8 K
                   9A 5F
                          ROFF1C
                                          Runoff source
CUG-029.19
              7 K
                   12 7A
                          ROFF2C
                                    .PAK
CUG-029.20
                                          Part of ROFF1C
             15K
                   B9 8B
                          ROFFCOM .PAK
CUG-029.21
                                          Object of ROFF
                   A4 7F
                          ROFFDOC .PAK
CUG-029.22
              5 K
                                          Tutorial on use of ROFF
CUG-029.23
              3 K
                   46
                     4F
                          ROFFGLOB, PAK
                                          Global declarations for ROFF
              1 K
                   6F
                      95
                          UBGETC
                                          Modified getc() for QED editor
CUG-029.24
                                   .COM
CUG-029.25
             11K
                   OF 45
                          UNPACK
                                          Used to unpack this disk
                                   .PAK
              BK.
                   F6 A8
                          UNPACKC
                                          Unpack source
CUG-029.26
              1 K
                   CO 11
                           UNPAKIT
                                   .SUB
                                          Submit file to unpack & remame disk
CUG-029.27
                   2A F5
                                    . C
                                          RCA 1802 (COSMAC) assembler source
              6 K
                          A18
CUG-030.1
                   DF 5A
                                    .DOC
             35K
                          A18
                                          Documentation for 1802 assembler
CUG-030.2
                                   .GBL
              5K
                   8E 54
                          A18
                                          Common include file for A18*
CUG-030.3
CUG-030.4
              8 K
                   98 9E
                          A18ASMLN.C
                                          Part of A18.C
              8 K
                   CA 12
                          A18EVAL .C
                                          Part of A18.C
CUG-030.5
                                          Part of A18.C
CUG-030.6
              9 K
                   AF FO
                          A18GET
                                    .C
                   26 17
                                    .C
                                          Part of A18.C
CUG-030.7
              5K
                          A18PUT
                                          Part of A18.C
CUG-030.8
              4K
                   47 AO
                          A18SYMB
                                   .C
                   04 25
                          A18TBLS .CRL
                                          Part of A18.C
              2 K
CUG-030.9
CUG-030.10
             12K
                   ED 50
                          A18TBLS .MAC
                                          Part of A18.C
                                    .C
CUG-030.11
              5K
                   ED 49
                          A68
                                          Motorola 6800 assembler source
CUG-030.12
             37K
                   C7 EB
                          A68
                                    .DOC
                                          Documentation for 6800 assembler
CUG-030.13
              6 K
                   25 ec
                          A68
                                    . GBL
                                          Common include file for A68*
              9 K
                   84 2B
                          A68ASMLN.C
                                          Part of A68.C
CUG-030.14
CUG-030.15
              8 K
                   57
                      18
                          A68EVAL .C
                                          Part of A68.C
                   56 8F
                                   . C
              9 K
                          A68GET
                                          Part of A68.C
CUG-030.16
                                    .C
CUG-030.17
              5K
                   B4 09
                          A68PUT
                                          Part of A68.C
CUG-030.18
              3 K
                   6B A9
                          A68SYMB
                                   .C
                                          Part of A68.C
CUG-030.19
              2K
                   66 69
                                   .CRL
                                          Part of A68.C
                          A68TBLS
CUG-030.20
             12K
                   28 7F
                          A68TBLS .MAC
                                          Part of A68.C
              1 K
                   A5 82
                                    .COM
CUG-030.21
                          ADCOPY
                                          Alternate one-screen DIR/STAT
CUG-030.22
              2 K
                   FE D9
                          BIGDIR
                                    .C
                                    . C
CUG-030.23
              9 K
                   94 B1
                          DISK
                                          Disk surgery program
CUG-030.24
              9 K
                   68 62
                          ELFTAPE .C
                                          Read/write COSMAC/ELF tape program
CUG-030.25
              1 K
                   6D 24
                          ELFTAPE1.CRL
                                          Read/write COSMAC/ELF tape program
CUG-030.26
              8K
                   F4 F1
                          ELFTAPE1.MAC
                                          Part of ELFTAPE.C
                                   .DOC
                   C9 13
CUG-030.27
              9 K
                          M80CRL
                                          How to use M80 to output .CRL files
                   71
                      65
                                    .COM
CUG-030.28
              2K
                          TARFMT
                                          Read/write Tarbell tape program
CUG-030.29
              1 K
                   7C 54
                          TDDCPY
                                    .COM
CUG-031.1
              1 K
                   2A 91
                          ADVCOMP
                                   .SUB
                                          Submit file to compile ADVENTURE
CUG-031.2
                                   . C
              5K
                   04 1A
                          ADVENT
                                          ADVENTURE game
                                   .COM
CUG-031.3
             10K
                   24 46
                          ADVENT
                                          ADVENTURE game
CUG-031.4
                      D2
              5K
                   B7
                          ADVENT
                                    .CRL
                                          ADVENTURE game
                                   . H
CUG-031.5
              6 K
                   89
                      7C
                          ADVENT
                                          Header file for ADVENT programs
CUG-031.6
             18K
                   03 71
                          ADVENT1
                                   .DAT
                                          Adventure data file
CUG-031.7
              7 K
                   72 82
                          ADVENT2
                                   . DAT
                                          Adventure data file
                                   .DAT
CUG-031.8
              1 K
                      68
                          ADVENT3
                                          Adventure data file
                   66
CUG-031.9
              4K
                   OB 20
                          ADVENT4
                                   .DAT
                                          Adventure data file
CUG-031.10
              6 K
                   FC 51
                          ADVENTS .DAT
                                          Adventure data file
CUG-031.11
             18K
                   C2 CB
                          ADVENT6 .DAT
                                          Adventure data file
                                          Submit file to link ADVENTURE
              1 K
                      1 E
                          ADVLINK .SUB
CUG-031.12
                   7 A
CUG-031.13
                   40 71
                          DATABASE.C
                                          Data manipulation sub-program
              7 K
CUG-031.14
              5K
                   53 34
                          DATABASE.CRL
                                          Data manipulation sub-program
CUG-031.15
              1 K
                   63 C1
                          EADVENT
                                   . C
                                          ADVENTURE main operating link
                                   .COM
CUG-031.16
             24K
                   7F 89
                          EADVENT
                                          ADVENTURE main operating link
CUG-031.17
                                   .CRL
              1 K
                   AF B1
                          EADVENT
                                          ADVENTURE main operating link
CUG-031.18
              3 K
                                          Part of ADVENTURE
                   2D BE
                          ENGLISH .C
CUG-031.19
                                          Part of ADVENTURE
              2 K
                   D7 6D
                           ENGLISH .CRL
                                   .DOC
                                          Adventure env description & run notes
CUG-031.20
              3 K
                   EA 13
                          ENVIRON
              1 K
                                          His or of ADVENTURE
CUG-031.21
                   12 14
                          HISTORY .DOC
```

	CUG-031.22	4K	23 42	ITVERB .C	Part of ADVENTURE
	CUG-031.23	3 K	64 FE	ITVERB .CRL	Part of ADVENTURE
	CUG-031.24	1 K	5B 9F	MKADVENT.SUB	Submit file to link ADVENTURE
	CUG-031.25	1 K	79 B3	MKEADVEN.SUB	Submit file to link ADVENTURE
	CUG-031.26	1 K	16 BE	MKSAVEAD.SUB	Submit file to link ADVENTURE
	CUG-031.27	1 K	B2 AD	SAVEADV .C	ADVENTURE game save link program
	CUG-031.28	7 K	FB 11	SAVEADV .COM	ADVENTURE game save link program
ì	CUG-031.29	2 K	D3 OE	SAVEADV .CRL	ADVENTURE game save link program
	CUG-031.30	14K	46 5B	TURN .C	Part of ADVENTURE
	CUG-031.31	10K	F1 43	TURN .CRL	Part of ADVENTURE
	CUG-031.32	13 K	FD F4	VERB .C	Part of ADVENTURE
	CUG-031.33	8 K	A6 B2	VERB .CRL	Part of ADVENTURE

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```
-CUG
         901
                    1 K
                                   CUG Directory Vols. 901 - 912
CONTENTSDOC
                    8 K
                  105K
COOKBOOK
COPY
         FTN
                   12K
                   78K
RATFOR
         FTN
                    2K
READ
         ME
                    1 K
         SUB
SINGLE
7 file(s).
47 directory entries remaining.
                    1 K
-CUG
         902
ARGS
         BDS
                    4K
                    4K
BDS
         DOC
CHANGES DOC
                    7 K
CONVERT
         BDS
                    8K
                    6 K
CONVR2C
         DOC
COPY
         BDS
                    1 K
         BDS
                    2K
DATE
ECHO
         BDS
                    1 K
                   11K
FILE
         BDS
         DOC
                    3 K
FILE
LINKARGSSUB
                    1 K
                    1 K
LINKCOPYSUB
MISC
         BDS
                    1 K
                   11K
PATTERN BDS
                    4K
RAT2C
         BDS
RAWFILE BDS
                    4 K
                    5 K
ROFF
         Н
                   13K
ROFF1
         BDS
ROFF2
                   18K
         BDS
SINGLE
         SUB
                    1 K
STORAGE BDS
                    2 K
More..
                    5 K
STRING
         BDS
SYMLINK SUB
                    1 K
SYMTAB
         BDS
                    9 K
TOOLIB1 BDS
                   14K
TOOLIB1 CRL
                    6 K
TOOLIB2 CRL
                    6 K
TOOLS
         Н
                    7 K
TOOLS
         SUB
                    1 K
30 file(s).
33 directory entries remaining.
-CUG
         903
                    1 K
ARGUDEFS
                    2 K
BANNER
         DOC
                    2K
BANNER
         RAT
                   54K
CMP
         DOC
                    1 K
CMP
         RAT
                    2K
CTO-XXX
                    5K
CTOD
         DOC
                    2K
         DOC
CTOP
                    2K
CTOR
         DOC
                    2K
CTOV
         DOC
                    2K
DARKEN
         RAT
                    1 K
DECODE
         DOC
                    7 K
DECODE
         RAT
                   15K
DOPRINT
         DOC
                    5 K
DOPRINT
         RAT
                   16K
DTOC
         DOC
                    3 K
```

ENCODE

ENCODE

GCD

DOC

RAT

DOC

11K

21 K

1 K

```
INPUT
                     4K
          DOC
More..
                     2K
INPUT
          RAT
INVMOD
          DOC
                     1 K
                     2K
INVMOD
          RAT
          DOC
                     1 K
JOIN
JOIN
          RAT
                     2 K
                    12K
          RAT
LABEL
MAIL
          DOC
                     3 K
                    14K
MAIL
          RAT
MAILID
          DOC
                     1 K
                     1 K
MAN
          DOC
                     1 K
MAN
          SHL
MATH
          DOC
                     8 K
MATH
         RAT
                    19K
SINGLE1 SUB
                     1 K
36 file(s).
23 directory entries remaining.
F>
-CUG
          904
                     1 K
08
          DOC
                     1 K
         RAT
                     6 K
08
         RAT
PAD
                     1 K
PAGE
         DOC
                     3 K
                     4K
PAGE
         RAT
                     5K
PARSCL
          DOC
PARSCL
                     5 K
         RAT
PG
         DOC
                     3 K
PG
         RAT
                     2 K
POSTMN
         RAT
                     2K
PP
                    10K
         RAT
PRIME
                     2K
         DOC
PRIME
         RAT
                     1 K
PRINT
         DOC
                     3 K
PRINT
         RAT
                     1 K
PRINTF
                     4K
         DOC
PRINTF
         RAT
                     6 K
PTOC
         DOC
                     2K
PWRMOD
                     1 K
         DOC
PWRMOD
         RAT
                     1 K
RSA
         DOC
                     3 K
More..
RSA
         RAT
                     6 K
RTOC
         DOC
                     3 K
SET
                     8 K
SETCOPY DOC
                     2K
SETCREATDOC
                     2K
SETDEL
          DOC
                     2K
SETELE
          DOC
                     2K
SETEQ
                     1 K
          DOC
SETINIT DOC
                     1 K
SETINS
          DOC
                     2K
SETINTERDOC
                     2K
SETREM
          DOC
                     2K
SETSBSETDOC
                     2K
SETSUBTRDOC
                     2K
SETUNIONDOC
                     2K
SINGLE2 SUB
                     1 K
SSOLVE
          DOC
                     1 K
SSOLVE
          RAT
                     3 K
STATS
          DOC
                     3 K
STATS
          RAT
                     7 K
                    12K
TA1
          RAT
```

```
More..
          RAT
                     1 K
TRIM
VTOC
          DOC
                     1 K
                     5 K
XLIB
                   12K
XXX-TOC
48 file(s).
16 directory entries remaining.
-CUG
         905
                     1 K
AR/VER1 DOC
                    7 K
         RAT
                   19K
AR/VER1
                    7 K
AR/VER2
         DOC
                   20 K
AR/VER2 RAT
                     2K
CAT
         DOC
CAT
         RAT
                     1 K
CH
         DOC
                     4K
CH
         RAT
                     4K
         DOC
                     2K
COMM
                     4K
COMM
         RAT
                     1 K
CPRESS
         DOC
CPRESS
         RAT
                     3 K
CRT
         DOC
                     2K
CRT
         RAT
                     3 K
                     2K
CRYPT
         DOC
                     2 K
CRYPT
         RAT
DATE
         DOC
                     1 K
                     1 K
DATE
         RAT
DC
         DOC
                     4K
DC
         RAT
                   18K
DETAB
         DOC
                     1 K
More..
DETAB
         RAT
                     4K
DIFF
                     4K
         DOC
DIFF
         RAT
                   25K
SINGLE1 SUB
                     1 K
26 file(s).
34 directory entries remaining.
-CUG
         906
                     1 K
ECHO
         DOC
                     1 K
ECHO
         RAT
                     1 K
EDIN
         DOC
                     4K
EDIN
         RAT
                   26 K
EDIT
          DOC
                   18K
EDIT
         RAT
                   42K
                     1 K
ENTAB
          DOC
ENTAB
          RAT
                     5K
EXPAND
          DOC
                     1 K
EXPAND
         RAT
                     3 K
FB
          DOC
                     4K
FB
         RAT
                   15K
FIELD
          DOC
                     3 K
FIELD
         RAT
                     6 K
FIND
         DOC
                     3 K
FIND
         RAT
                     3 K
INCL
          DOC
                     2K
INCL
          RAT
                     4K
KWIC
          DOC
                     2 K
KWIC
          RAT
                     2K
LAM
          DOC
                     2K
```

3 K

AL

More..

RAT

LAM

Az. L

LN

```
LL
          RAT
                     2 K
                     1 K
SINGLE2 SUB
26 file(s).
34 directory entries remaining.
                     1 K
-CUG
          907
          DOC
                     7 K
MACRO
          RAT
                    13K
MACRO1
                    18K
MACR02
          RAT
MCOL
          DOC
                     3 K
                     8 K
MCOL
          RAT
                     1 K
MV
          DOC
                     1 K
ΜV
          RAT
          DOC
                     1 K
08
08
          RAT
                     2 K
PL
          DOC
                     2K
PL
         RAT
                     6 K
PR
          DOC
                     2K
                     5 K
PR
         RAT
                     9 K
RATDEF
RATFOR
          DOC
                    19K
RATFOR
          RAT
                    74K
REV
         DOC
                     1 K
REV
          RAT
                     2K
          DOC
                     2K
RM
                     3 K
RM
         RAT
                     8 K
ROFF
          DOC
More..
ROFF
         RAT
                    44K
SINGLE3 SUB
                     1 K
24 file(s).
32 directory entries remaining.
-CUG
          908
                     1 K
SEDIT
         DOC
                     6 K
SEDIT
         RAT
                    21 K
                    12K
SHELL
         DOC
SHELL
         RAT
                    60K
SINGLE4
         SUB
                     1 K
SORT
          DOC
                     3 K
SORT
          RAT
                    19K
SPELL
          DOC
                     1 K
SPELL
          RAT
                    10K
SPLIT
          DOC
                     3 K
SPLIT
          RAT
                     7 K
TAIL
          DOC
                     1 K
TAIL
          RAT
                     4K
TEE
          DOC
                     1 K
TEE
          RAT
                     1 K
TR
          DOC
                     3 K
TR
          RAT
                     3 K
          DOC
                     2K
TSORT
TSORT
                     7 K
          RAT
UNIQ
          DOC
                     1 K
UNIQ
          RAT
                     3 K
More..
UNROT
          DOC
                     1 K
UNROT
                     4K
          RAT
WC
          DOC
                     1 K
WC
          RAT
                     4K
XREF
          DOC
                     2 K
```

XREF

28 file(s).

RAT

9 K

100

```
directory entries remaining.
...
-CUG
          909
                     1 K
                     1 K
ADDSET
          DOC
                     1 K
ADDSTR
          DOC
                     2K
AMATCH
          DOC
                     2K
AMOVE
          DOC
          DOC
                     1 K
CANT
                     2K
CLOSE
          DOC
                     1 K
CLOWER
          DOC
CONCAT
          DOC
                     1 K
                     2K
CREATE
          DOC
CTOC
          DOC
                     2K
          DOC
                     1 K
CTOI
CTOMN
          DOC
                     1 K
CUPPER
          DOC
                     1 K
DEFNS
          DOC
                     5 K
DELARG
          DOC
                     1 K
DELETE
          DOC
                     2K
DSFREE
          DOC
                     2K
                     3 K
DSGET
          DOC
                     2K
DSINIT
          DOC
                     1 K
ENDST
          DOC
ENTER
         DOC
                     2K
More..
         DOC
                     1 K
EQUAL
ERROR
         DOC
                     1 K
                     1 K
ESC
         DOC
FCOPY
         DOC
                     1 K
                     2K
FLUSH
         DOC
         DOC
                     2K
FMTDAT
FOLD
         DOC
                     1 K
GCTOI
                     2K
         DOC
GETARG
         DOC
                     3 K
GETC
         DOC
                     1 K
GETCH
         DOC
                     2K
GETLIN
         DOC
                     3 K
                     2K
GETNOW
          DOC
GETPAT
          DOC
                     2 K
GETTYP
          DOC
                     2K
GETWRD
          DOC
                     1 K
GFNARG
          DOC
                     4K
GITOC
          DOC
                     3 K
INDEX
          DOC
                     1 K
INITST
          DOC
                     2K
ISATTY
          DOC
                     1 K
ITOC
          DOC
                     1 K
More..
LENGTH
          DOC
                     1 K
LIBDEF
                     3 K
LIBRARY
         DOC
                     3 K
LOOKUP
          DOC
                     2K
          DOC
LOWER
                     1 K
PRIM-A
                     5 K
PRIM-C
                     9 K
PRIM-D
                     7 K
PRIM-E
                     4K
PRIM-F
                     5 K
PRIM-G
                    14K
PRIM-I
                     8 K
PRIM-L
                     2K
SINGLE1 SUB
                     1 K
58 file(s).
               entries remaining.
```

6 directory

```
-CUG
          910
                     1 K
EDIT1
          PRM
                    17K
EDIT2
          PRM
                    22K
                     2K
MAKPAT
          DOC
          DOC
                     2K
MATCH
                     2K
MKTABL
          DOC
                     3 K
MKUNIQ
          DOC
MNTOC
          DOC
                     2K
          DOC
                     2K
NOTE
                     4K
          DOC
OPEN
                    10K
PRIM-M
                     2K
PRIM-N
                     4K
PRIM-0
                     6 K
PRIM-P
                     1 K
PRIM-Q
                     5 K
PRIM-R
PRIM-S
                     9 K
                     4K
PRIM-T
                     1 K
PRIM-U
                     1 K
PRIM-W
PROMPT
         DOC
                     2K
                     1 K
PUTC
         DOC
More..
                     1 K
PUTCH
         DOC
                     1 K
PUTDEC
         DOC
                     1 K
PUTINT
         DOC
         DOC
                     2K
PUTLIN
                     1 K
PUTSTR
         DOC
QUERY
         DOC
                     2K
RATFOR
         PRM
                    18K
                     2K
READF
         DOC
REMARK
         DOC
                     2K
                     1 K
REMOVE
         DOC
                     2K
RMTABL
         DOC
SCOPY
         DOC
                     1 K
                     3 K
SCTABL
         DOC
SDROP
                     1 K
         DOC
SEEK
         DOC
                     2K
                     1 K
SINGLE2
         SUB
SKIPBL
         DOC
                     1 K
SPAWN
         DOC
                     4K
STAKE
          DOC
                     1 K
                     1 K
STCOPY
          DOC
STRCMP
                     1 K
         DOC
STRIM
          DOC
                     1 K
More..
SUBSTR
                     2K
          DOC
TYPE
          DOC
                     1 K
UPPER
          DOC
                     1 K
WKDAY
          DOC
                     1 K
WRITEF
         DOC
                     2K
49 file(s).
12 directory entries
                         remaining.
-CUG
          911
                     1 K
A1
                    12K
A2
                    15K
В
                    23 K
C1
                    20 K
C2
                    22K
```

26 K

19K

17K

D

E

F

```
Н
                    15K
I
                    21K
J
                     4K
K
                     5 K
                    12K
L
                     1 K
SINGLE1 SUB
16 file(s).
41 directory entries remaining.
-CUG
          912
                     1 K
                    22K
M
                     9 K
N
                    10K
0
                    17K
P1
P2
                    16K
Q
                     2K
R
                    24K
                    21 K
S1
S2
                    25K
                     1 K
SINGLE2 SUB
T
                    20 K
                    12K
U
٧
                     7 K
W
                    10K
X
                     1 K
Y
                     2K
Z
                     1 K
18 file(s).
```

40 directory entries remaining.

13 K

```
-CUG
          X01
                     1 K
                     7 K
          C
AB080
ACRL
          C
                     6 K
                     1 K
          CAT
ACRL
          COM
                    18K
ACRL
                     3 K
ACRL
          DOC
                     5 K
ACRL
          Н
                     5 K
AEXP
          C
                     8 K
ALEX
          C
APAR
          C
                     8 K
                     1 K
BDS
          EQU
                     1 K
CATALOGSDOC
                     1 K
CCACRL
          SUB
                     7 K
FPUT
          C
FPUT
          CAT
                     1 K
FPUT
          COM
                     7 K
          DOC
                     1 K
FPUT
                     1 K
LINKACRLSUB ·
          ME
                     1 K
READ
                     2 K
TEST1
          CSM
         CSM
                     3 K
TEST2
                     2K
TEST3
          CSM
22 file(s).
41 directory entries remaining.
-CATALOGDOC
                     2K
                     1 K
-CUG
         X02
                     5 K
-README DOC
AN
         NRO
                     1 K
                    24K
CASM2
         C
CMDUTIL C
                     6K
                     1 K
CMDUTIL H
CMDUTIL NRO
                   13K
CORO
                     3 K
         Н
CORO
                   12K
         NRO
CORO1
          C
                     7 K
CORO2
         CSM
                     8 K
CORODOC NRO
                   24K
CPROFIL2CSM
                   12K
CPROFILEC
                    19K
CPROFILENRO
                     3 K
         C
CTOA
                    20 K
CTOA
         Н
                     5K
CTOA
                     2 K
          NRO
CTOA2
         C
                    11K
CTOATBLSCSM
                     9 K
CTOATBLSH
                     2 K
More..
         C
DIFF
                    11K
DIFF
          NRO
                     4K
GENREL
          C
                     6 K
INSTALL DOC
                     3 K
PIP
          CMD
                     8 K
RETAB
                     5 K
          C
28 file(s).
32 directory entries remaining.
-CUG
         XO3
                     1 K
BDSCIO
          Н
                     6 K
BLDC
          SUB
                     1 K
CANEW
          C
                    21 K
CANEW
          COM
                    24K
          C
                     4K
CB
```

C

10K

CD

CUG Directory Vols. X01 - X03

ρp:.	1	~ ,
CE6809	C	8 K
COLORLI	3A69	12K
CWRITER	C	2 K
CWRITER	DOC	4 K
CWRTINI	C	2 K
DLOAD		7 K
FPASSO	C	6 K
FPASS1	C	2K
FPASS2	C	1 K
GRAPH	Н	2K
LIB		5 K
PASSO	C	3 K
PASS1	C	3 K
PASS2	C	1 K
More		
PRELUDE		1 K
README	DOC	11K
RUN		3 K
RUN6809	A69	4 K
SER6809		2 K
SER69	A69	2K
SERIO	С	2K
SERIO	COM	5K
SHOOT	C	4K
SHOOT	GPH	1 K
SHOOT	H	1 K
SHOOT1	C	7 K
SHOOT1		24K
SHOOTINI		3 K
36 file		
25 direc	ctorv	entries

25 directory entries remaining.

TYPE SIGM.DIR SIGMUG UPDATE VOLUME AS OF 4/10/85

SIGMUG DIRECTORY vols. 1-208
(as of 4/10/85)

```
S000
          READTHIS.
                                explains how to use this disk
                   .COM
                                checksum program
S000
          CRC
S000.01
                   .COM
                          3 K
                                FAST - speeds search
                          1 K
                                Program to locate information
          FIND
                   .COM
3000.02
          -CATALOG.001
                          1k
                                Contents of Sig/M Users Group volume 1
S001
                                Notes on ADVENTURE
S001
          ABSTRACT.001
                          2k
                         39k
                                Original ADVENTURE game
S001.01
          AD.COM
S001.02
          ADVENTUR.MSG
                         63 k
                                Database file - location descriptions
                          2k
                                Database file - vocabulary words
S001.03
          ATAB.DAT
S001.04
          COMMON.DAT
                          4k
                                Database file - common
          KTAB . DAT
S001.05
                          1k
                                Database file - vocabulary words
S001.06
          LTEXT.DAT
                          1k
                                Database file - locations
                          1k
                                Database file - random messages
S001.07
          RTEXT.DAT
S001.08
          STEXT . DAT
                          1k
                                Database file - locations
S001.09
          TRAVEL. DAT
                          5k
                                Database file - travel options
S002
          -CATALOG.002
                          1k
                                Catalog of Sig/M Users Group volume 2
S002
          ABSTRACT.002
                          3k
                                Implementation notes
                         28k
S002.01
          ADINIT.COM
                                Used to create ADVENTURE database files
S002.02
          ADVENSUB.FOR
                         13 k
                                Subroutine used in AD.COM and ADINIT.COM
                          5k
                                Subroutine used in ADINIT.COM
S002.03
          ADVENT.FOR
S002.04
          ADVENTUR.DAT
                         74k
                                Database source for ADVENTURE
                         29k
                                Subroutine used in ADINIT.COM
S002.05
          ADVINITS.FOR
S002.06
          ADVMAIN.FOR
                         47 k
                                Main routine used in AD.COM
S002.07
          INSUB.FOR
                          5k
                                Subroutine used in ADINIT.COM
                                Subroutine used in AD.COM
S002.08
          MAINSB.FOR
                         - 5k
S003
                          1k
          -CATALOG.003
                                Contents of Sig/M Users Group volume 3
S003
          ABSTRACT.003
                          1k
                                Notes on expanded ADVENTURE
S003.01
          ADV.COM
                         36 k
                                Expanded ADVENTURE game
S003.02
          ADVT.DAT
                        105k
                                Expanded ADVENTURE game database file
S003.03
          ADVI.DAT
                         31k
                                Expanded ADVENTURE game database file
S003.04
          ADVI.PTR
                          4k
                                Expanded ADVENTURE game subroutine
S003.05
                                Expanded ADVENTURE game subroutine
          ADVT.PTR
                         15k
S004
          -CATALOG.004
                          2k
                                Contents of Sig/M Users Group volume 4
S004.01
          3740UTIL.ASM
                         60k
                                Copy CP/M to and from 3740 format
S004.02
          3740UTIL.DOC
                                Copy CP/M to and from 3740 format
                          8k
S004.03
          BDOS-PAT.ASM
                          2k
                                Make USER O (CP/M 2.X) public
S004.04
          BMAP7/11.ASM
                          7k
                                Print allocation map
S004.05
          CCPPATCH.ASM
                          1k
                                Make drive A: default for .. COM files
S004.06
                                ALS-8 to CP/M converter (Dr. Dobbs)
          CHANGE . ASM
                          4k
S004.07
          CRCK3.ASM
                          8k
                                Create 16 bit CRC for a file
S004.08
                          5k
                                CP/M 2.2 to 1.4 directory compatibility
          DIRFIX.ASM
S004.09
          DIRSIO/1.ASM
                          9k
                                Sorted DIR with SYS and MP/M options
S004.10
          DOWHILES.LIB
                          1 k
                                DOWHILE construct MACRO library used by S004.01
S004.11
          DU-8/12.ASM
                         16k
                               Disk Utility - update of C40.20
S004.12
          DUPUSR2.ASM
                          8 k
                                Create duplicate directory w/new user #
5004.13
                          4k
          EQUATES.LIB
                                General assembly equates library used by SO4.01
          FILPRINT.ASM
S004.14
                          2k
                                Turn .TXT into .COM
S004.15
          FINDBD37.ASM
                         27 k
                                Updated program to lock out bad blocks
S004.16
          FMAP6/12.ASM
                          9k
                                Sorted directory mapping program - C40.24 revised
S004.17
          MACROS.LIB
                         16k
                                General MACRO library used by S004.01
S004.18
          NCOMPARE.LIB
                          2k
                                8 bit COMPARE MACRO library used by S004.01
S004.19
          PGOEQU.ASM
                          1k
                                Page D EQUATES - part of SOD4.09 DIRSIO/1.ASM
S004.20
          SELECTS.LIB
                          2k
                                SELECT construct MACRO library used by S004.01
          SURVEY.COM
S004.21
                          1k
                                List disk, memory use, and other parts
S004.22
          SURVEY3.ASM
                         13 k
                                List disk, memory use, and other parts
S004.23
          SYMSTACK.LIB
                          1k
                                Symbol stack MACRO library - used by S004.01
S004.24
          WHENS.LIB
                          1 k
                                MACRO library of WHEN constructs used by S004.01
```

Sorted directory with sizes

S004.25

XDIR6/28.ASM

Rk

```
S005
                                 Contents of Sig/M Users Group volume 5
            -CATALOG.005
                            1 k
  S005.01
            CPUDIAG.ASM
                           14k
                                 CPU test diagnostics for 8080 and 8085
                            2K
  S005.02
            CPUDIAG.DOC
                                 CPU test diagnostics for 8080 and 8085
  S005.03
            MEMDIAG.DOC
                           12k
                                 Memory diagnostic
            MEMDIAG.ASM
                           34k
                                 Memory diagnostic
  S005.04
            3712DIAG.ASM
                           73k
                                 iCOM SD controller diagnostic
  S005.05
                           93 k
                                 iCOM DD controller diagnostic
            3812DIAG.ASM
 S005.06
  S005.07
            3X12DIAG.DOC
                            2k
                                 iCOM disk controller diagnostics
                                 Proposed networking of User Groups
  S005.08
            CP/M-NET.MSG
                            4k
                            1k
            -CATALOG.006
  S006
                                 Contents of Sig/M Users Group volume 6
  S006
            ABSTRACT.006
                            2k
                                 Describes each module in 6502 Simulator
 S006.01
            ZILASM.COM
                           11k
                                 6502 Simulator module
  S006.02
            ZX65.COM
                            5k
                                 6502 Simulator module
 S006.03
            ZX65R.PRN
                           98k
                                 Assembler listing of ZX65R.ZSM before relocation
 S006.04
            ZX65R.ZSM
                           39k
                                 Source code for relocatable 6502 Simulator
                           15k
 S006.05
            ZXART.DOC
                                 6502 Simulator article from Dr. Dobbs - Oct 1980
                                 Information on 6502 Simulator load and run
 S006.06
            ZXHINTS.DOC
                            9k
 S006.07
            ZXLDR.PRN
                           23 k
                                 Assembler listing of ZXLDR.ZSM before relocation
 S006.08
            ZXLDR.ZSM
                            7k
                                 Loader - contains relocation map for ZX65R
 S006.09
            ZXTAB1.DOC
                            1k
                                 6502 to Z80 table from Dr. Dobbs
                            1k
                                 6502 to Z80 table from Dr. Dobbs
 S006.10
            ZXTAB2.DOC
                            1k
 S006.11
            ZXTAB3.DOC
                                 6502 to Z80 table from Dr. Dobbs
                            1k
 S006.12
            ZXTAB4.DOC
                                 6502 to Z80 table from Dr. Dobbs
                            2k
 S006.13
            CONCOD, LIB
                                 Control code definitions for 6502 Zapple
 S006.14
            ZAPMON.MOS
                            1k
                                 Zapple Monitor for 6502
 S006.15
                            5k
                                 Zapple Monitor for 6502
            ZAPMON.HEX
 S006.16
            ZAP3.INS
                           11k
                                 Zapple module for 6502
 S006.17
            ZAP5.INS
                            3 k
                                 Zapple module for 6502
            ZAP1.INS
 S006.18
                            3k
                                 Zapple module for 6502
 S007
            -CATALOG.007
                            2k
                                 Contents of Sig/M Users Group volume 7
 S007.01
            DCHBYE55.ASM
                           23 k
                                 Remote console for DC Hayes modem
 S007.02
            FLIP-8/8.ASM
                            3 k
                                 Switch remote console to originate mode
 S007.03
            TAG.ASM
                            5k
                                 Set/reset & display "no copy" (F1 bit) on a file
            MLIST34.ASM
 S007.04
                            9k
                                 LIST command w/16k buffer
                           45k
 S007.05
            MODEM926.ASM
                                 Remote communications program - update of C40.28
 S007.06
                           21k
            PLINK925.ASM
                                 Update of C19.04 - remote CPU control program
                                 Replaces CP/M USER cmd on remote CPU
 S007.07
            USER-8/8.ASM
                            2k
 S007.08
                           20k
            XMODEM32.ASM
                                 DC Hayes modem support
 S007.09
            PURGE.ASC
                            4k
                                 Remove "killed" msg's from RIBBs files - MBASIC
 S007.10
            RIBBS.ASC
                           20 k
                                 Remote Iselin bulletin board system - MBASIC
 S007.11
                                 Xfer < > Micropolis 1.4 & 8" systems
            MIC-XFER.ASM
                            7k
 S007.12
                            7 k
            MIC-XFER.DOC
                                 Data transfer documentation
 S007.13
            XFER5-8.ASM
                            3 k
                                 Transfer files between 5" and 8"
                                 Transfer files between 5" and 8"
 S007.14
            XFER8-5.ASM
                            3 k
 S007.15
                            5k
            V2FORMAT.ASM
                                 Versafloppy 2 format program
 S007.16
                            9k
            MENU.ASM
                                 Creates menu of all .COM and .BAS files
 S007.17
                            5k
            MEM-MAP.ASM
                                 Use to map RAM/ROM
 S007.18
                            8k
            MOVE6/12.ASM
                                 Single drive COPY program
 S007.19
                            8k
            RELDUMP.ASM
                                 DUMP Microsoft .REL files - uses MAC
                            1k
 S007.20
            SAP-FIX.DOC
                                 Patches for C19.08
 S007.21
                            5k
                                 Clear bit 7 of a text file
            TEXCLEAN.ASM
 S007.22
            TPA3.ASM
                            2k
                                 Computes free space in TPA
 S007.23
            Z80EXT.LIB
                            3k
                                 Extra Z80 opcodes
 S008
            -CATALOG.008
                            2k
                                 Contents of Sig/M Users Group volume 8
3008.01
            BOOT.ASM
                            1 k
                                 Sample 48K BOOT for PASCAL
 5008.02
            BOOTER.DOC
                            3 k
                                 PASCAL BOOT documentation for CP/M
            TEST.ASM
 S008.03
                                 Scan & load 8080/Z80 PASCAL interpreter
                            7k
 S008.04
            PAS2CPM.ASM
                            8k
                                 PASCAL to CPM diskette format conversion
 S008.05
            PASCAL.ASM
                            7k
                                 UCSD PASCAL interpreter system
 S008.06
            PASCAL, COM
                           17k
                                 UCSD PASCAL interpreter
 S008.07
            PASCAL.DOC
                            1k
                                 UCSD PASCAL interpreter documentation
```

Convert PASCAL file to CPM file

8008.08

PASTOCPM

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```
S008.09
            PBOOT.ASM
                            1 k
                                  48K standardized BOOT for UCSD PASCAL interpreter
                            4k
  S008.10
            PGEN.ASM
                                 PASCAL BOOT maintenanence utility
                            1k
  S008.11
            PGEN.COM
                                 PASCAL BOOT maintenanence utility
  S008.12
            PINIT.ASM
                            6 k
                                 PASCAL interpreter INITialization utility
  S008.13
            READ.ME
                            2k
                                 PASCAL startup documentation
  S008.14
            CHAT13.ASM
                            5k
                                 2-way communications with remote caller
  S008.15
            DCHBYE57.ASM
                           24k
                                 Remote console DCHBYE55 upgrade (S007.01)
                           46 k
                                 Auto-dial/re-dial w/DC Hayes & PMMI modems
 S008.16
            MODEM5A.ASM
                                 Upgrade C19.04 & S007.06 w/more modem types
  S008.17
            PLNK1018.ASM
                           21k
  S008.18
            NEWBAUD.ASM
                            4k
                                 Switch BAUD rate on a remote PMMI modem
  S008.19
            RBBS22.ASC
                           20 k
                                 Update of RBBS S007.10
                            6 k
                                 Documentation for RBBS - S008.19
  S008.20
            RBBS22.DOC
  S008.21
            RBSUTL22.ASC
                            9k
                                 Remote Bulletin Board UTiLity program
  S008.22
            MBOOT3.ASM
                            8k
                                 Compacted MODEM for receive only usage
  S008.23
            XMODEM38.ASM
                           24k
                                 Update S007.08 - remote CP/M to CP/M xfer
                                 Contents of Sig/M Users Group volume 9
  S009
            -CATALOG.009
                            2k
                            2k
                                 Forces a CP/M command from a user level
  S009.01
            AUTOX.ASM
                           10k
                                 COPY files > 512K thru PIP utility
  S009.02
            CPYFIL15.ASM
                                 Upgrade of CRCK3 in S004.07
            CRCK10/6.ASM
                           11k
  5009.03
                            9k
                                 Sorted DIRectory from DIRS10/1 S004.09
  S009.04
            DIRS1015.ASM
  S009.05
            DISPLAY.COM
                            3 k
                                 Display ASCII file using ED.COM commands
                                 Display ASCII file using ED.COM commands
                            3 k
  S009.06
            DISPLAY.DOC
                            3k
                                 Patch for DISPLAY.COM
            DISPLAYP.ASM
  S009.07
            DU-10/26.ASM
                           18k
                                 Update of Disk Utility in S004.09
  $009.08
                                 Multiple file search routine
                           10k
  S009.09
            FIND3/18.ASM
                           29k
                                 Update FINDBD37 S004.15 - bad diskette utility
  S009.10
            FINDBD38.ASM
  S009.11
            LISTGRPS.ASC
                            1k
                                 LIST track and sector for each group
  5009.12
            MDIR8/17.ASM
                           10k
                                 Alpha/Numeric master DIRectory by users
                           17k
                                 Dr. Dobbs one drive multi-file transfer
  S009.13
            MFT45.ASM
                                 Micropolis and regular CP/M file XFER
                            7k
  S009.14
            MIC-XFER.ASM
                            5k
                                 Micropolis and regular CP/M file XFER
  S009.15
            MIC-XFER.DOC
                                 Sorted DIR w/option of writing file
                            9k
  S009.16
            NFMAP.ASM
 S009.17
            NLIST.ASM
                           14k
                                 LISTs disk file on LST: device
                                 Super directory sorted alphabetically with sizes
  S009.18
            SD-12/15.ASM
                           17k
                           10k
                                 Sector disk maintenance program
  S009.19
            SECTOR.ASM
                                 Print track and sector addr of groups
  S009.20
            SHOWGRP.ASC
                            2k
                                 Terminal diagnostic program
  S009.21
            TERMTEST.ASM
                            2k
  S009.22
            USERLST.ASM
                            3k
                                 Display current USER in CP/M prompt
            VLIST11.ASM
  S009.23
                            8k
                                 Variable speed LIST routine
                                 Displays present CP/M release level
  S009.24
            WHICH.ASM
                            4k
                                 Flash writer I/O driver
  S009.25
            MIKEBIOS.ASM
                            8k
  S010
                                 Contents of Sig/M Users Group volume 10
            -CATALOG.010
                            1k
                                 Interstellar commerce game - Microsoft BASIC
  S010.01
            LANES.BAS
                            6k
  S010.02
                           17k
                                 Computer journal resource library
            JOURNAL BAS
                                 Microsoft BASIC game
  S010.04
            BLACKBOX.BAS
                            3 k
  S010.05
            BOGGLE.BAS
                            1k
                                 Microsoft BASIC game
                                 Backgammon for H19 terminal - Microsoft BASIC
  S010.06
            GAMMON.H19
                           11k
                                 Microsoft BASIC game for Heath terminal
  S010.07
            NIM1.H19
                            8k
                                 Microsoft BASIC game for Heath terminal
  S010.08
            OTHELLO.H19
                            5k
                                 Microsoft BASIC game for Heath terminal
                           12k
  S010.09
            STARWAR2.H19
  S010.10
            ALS8CPM.ASM
                           17k
                                 Convert Proc Tech asm files to CP/M
                            1k
                                 16 bit division by 8 bit divisor
  S010.11
            DIV16B.ASM
                            5k
                                 CDOS calls for CP/M
  S010.12
            DSIM.LIB
  S010.13
            NSCPM48.ASM
                           22 k
                                 Run North Star BASIC under CP/M
  S010.14
            NSCPM48.DOC
                            8k
                                 Run North Star BASIC under CP/M
                                 Run North Star BASIC under CP/M
  S010,15
            RETURN 48.COM
                            1k
                                 RESOURCE disassembler resurrected with .ASM
                           33 k
S010.16
            REZ.ASM
            REZ.COM
                            7 k
                                 A nifty 8080 disassembler
  S010.17
                                 Modified for Z80 TDL op codes
  S010.18
            REZ.DOC
                           26 k
  S010.19
            REZ.Z80
                           36 k
                                 Disassembler modified for Zilog op codes
  S011
            -CATALOG.011
                            1k
                                 Contents of Sig/M Users Group volume 11
                                 Notes on expanded ADVENTURE - Replaces S003
  S011
            ABSTRACT.011
                            1k
                                 Expanded ADVENTURE name
  S011.01
                           36
            ADV.COM
```

```
S011.02
            ADVT.DAT
                          105k
                                  Expanded ADVENTURE database
                                  Expanded ADVENTURE database
  S011.03
            ADVI.DAT
                           31k
  S011.04
            ADVI.PTR
                            4k
                                  Expanded ADVENTURE game subroutine
  S011.05
            ADVT.PTR
                           15k
                                  Expanded ADVENTURE game subroutine
  S012
                                  Contents of Sig/M Users Group volume 12
            -CATALOG.012
                            1k
                           23 k
  S012.01
            CATALOG.SRT
                                  Cross reference of CP/M vol 1-47 & Sig/M vol 1-11
            CAT.COM
                            1k
  S012.02
                                  Catalog program
                            7 K
  S012.03
            MAST.CAT
                                  Catalog database file
  S012.04
            WIDE.COM
                            1k
                                  MX-80 line compression program
  S012.05
            P4
                           24k
                                  Cross ref by file type - CPMUG 1-47 & Sig/M 1-11
  S012.06
            P5
                           24k
                                  Cross ref by file type - CPMUG 1-47 & Sig/M 1-11
            P6
                           24k
                                  Cross ref by file type - CPMUG 1-47 & Sig/M 1-11
  S012.07
            P7
                           24k
                                  Cross ref by file type - CPMUG 1-47 & Sig/M 1-11
  S012.08
                            2k
                                  Contents of Sig/M Users Group volume 13
  S013
            -CATALOG.013
                                  CPMUG submittal form
                            4k
  S013
            -CUGFORM.LIB
  S013
                            2k
                                  Sig/M submittal form
            -SIGFORM.LIB
                           28k
                                  MITS to CP/M file conversion
  S013.01
            MITSCNVT.ASM
            MITSCNVT.COM
                                  MITS to CP/M file conversion
                            7k
  S013.02
  S013.03
            MITSCNVT.CPM
                            3k
                                  MITS to CP/M file conversion
  S013.04
            MITSCNVT.DOC
                            7k
                                  MITS to CP/M file conversion
                                  MITS to CP/M file conversion
  S013.05
            MITSCNVT.HEX
                            8k
  S013.06
            ABORTSUB.COM
                            2k
                                  HELP file system utility
  S013.07
            HELP.ASM
                           13k
                                  HELP file system
            SYSLIB.HLP
                           37k
  S013.08
                                  System utility library routines
  S013.09
            SYSLIB.REL
                            9k
                                  System utility library routines
  S013.10
                            2k
            HELP.COM
                                  HELP file system
  S013.11
            MASM.SUB
                            1 k
                                  MACRO-80 assembler & linker HELP file
  S013.12
            PHELP.COM
                            2k
                                  print utility HELP file
  S013.13
            PHELP.MAC
                            6k
                                  HELP print utility MACROs
  S013.14
            HELP.DOC
                            4k
                                  HELP file system documentation
  S013.15
            SD-2/6.ASM
                           18k
                                  Updated SUPER DIRectory display
  S013.16
            SD.COM
                            2k
                                  Updated SUPER DIRectory display
  S013.17
            ENTAB.ASM
                            6 k
                                  Space suppression program
  S013.18
            ENTAB.COM
                            1k
                                  Space suppression program
  S013.19
            UTIL.FOR
                            2k
                                  FORTRAN array handling subroutine
  S013.20
                            2k
            LOOPBAK1.BAS
                                 PMMI loop back test
  S013.21
            FORTH11.ASM
                           40 k
                                  Fig-FORTH version 1.1 source
  S013.22
            FORTH11.COM
                           23 k
                                  Fig-FORTH version 1.1 object
  S013.23
            FORTH11.DOC
                            4k
                                  Fig-FORTH version 1.1 documentation
  S014
            -CATALOG.014
                            2k
                                  Contents of Sig/M Users Group volume 14
  S014.01
            HELP.COM
                            2k
                                 HELP file system
  S014.02
                            7 k
            HELP.HLP
                                 HELP system - HELP file system
  S014.03
            CPM.HLP
                           31k
                                  HELP system - CP/M 1.4
  S014.04
            CPM2.HLP
                           37k
                                  HELP system - CP/M 2.2
  S014.05
                            4k
                                  HELP system - CP/M 1.4 ASM (assembler)
            ASM.HLP
  S014.06
                                  HELP system - CP/M 2.2 ASM (assembler)
            ASM2.HLP
                            4k
  S014.07
                                       system - CP/M MAC(macro assembler)
            MAC.HLP
                            8k
                                  HELP
  S014.08
            MBASIC.HLP
                           21 k
                                 HELP system - Microsoft BASIC
  S014.09
            CBASIC.HLP
                           14k
                                  HELP
                                       system - CBASIC
  S014.10
            EBASIC.HLP
                           12k
                                  HELP
                                       system - BASIC-E
  S014.11
                           22 k
            CBASIC2.HLP
                                  HELP system - CBASIC-2
  S014.12
                            8 k
                                 HELP system - MACRO-80 (M80)
            MASM.HLP
  5014.13
            ALGOLM.HLP
                           13k
                                  HELP system - ALGOL-M
  5014.14
                           17 k
                                  HELP system - BDS 'C'
            C.HLP
  S014.15
            FORTRAN.HLP
                            7k
                                  HELP system - Microsoft FORTRAN
S014.16
                           10k
            PASCAL.HLP
                                 HELP system - PASCAL/MT
 S015
            -CATALOG.015
                            2k
                                  Contents of Sig/M Users Group volume 15
  S015
            CRCKFILE.015
                            2k
                                  CRC check file
  S015.01
            CATALOG.001
                            6 k
                                  Catalog and abstracts of CPMUG volume 1
                                  Catalog and abstracts of CPMUG volume 2
  S015.02
            CATALOG.002
                            1k
  S015.03
            CATALOG.003
                                  Catalog and abstracts of CPMUG volume 3
                           13 k
  S015.04
                                  Catalog and abstracts of CPMUG volume 4
            CATALOG.004
                            4k
```

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S015.05
           CATALOG.005
                          Зk
                                Catalog and abstracts of CPMUG volume 5
           CATALOG.006
                          2k
                                Catalog and abstracts of CPMUG volume 6
S015.06
                          2k
                                Catalog and abstracts of CPMUG volume 7
S015.07
           CATALOG.007
                          4k
S015.08
           CATALOG.008
                                Catalog and abstracts of CPMUG volume 8
S015.09
           CATALOG.009
                          2k
                                Catalog and abstracts of CPMUG volume 9
S015.10
           CATALOG.010
                          1k
                                Catalog and abstracts of CPMUG volume 10
                          2k
                                Catalog and abstracts of CPMUG volume 11
S015.11
           CATALOG.011
                                Catalog and abstracts of CPMUG volume 12
S015.12
           CATALOG.012
                          1k
                         12k
                                Catalog and abstracts of CPMUG volume 13
S015.13
           CATALOG.013
                          3k
                                Catalog and abstracts of CPMUG volume 14
S015.14
           CATALOG.014
           CATALOG.015
                          2k
                                Catalog and abstracts of CPMUG volume 15
S015.15
                          8k
                                Catalog and abstracts of CPMUG volume 16
S015.16
           CATALOG.016
          CATALOG.017
                          4k
                                Catalog and abstracts of CPMUG volume 17
S015.17
S015.18
           CATALOG.018
                          2k
                                Catalog and abstracts of CPMUG volume 18
          CATALOG.019
                          7 k
                                Catalog and abstracts of CPMUG volume 19
S015.19
                          1k
                                Catalog and abstracts of CPMUG volume 20
           CATALOG.020
S015.20
                         16 k
                                Catalog and abstracts of CPMUG volume 21
S015.21
           CATALOG.021
                                Catalog and abstracts of CPMUG volume 22
           CATALOG.022
                          5k
S015.22
                          5k
                                Catalog and abstracts of CPMUG volume 23
S015.23
           CATALOG.023
S015.24
           CATALOG.024
                          5k
                                Catalog and abstracts of CPMUG volume 24
                                Catalog and abstracts of CPMUG volume 25
S015.25
           CATALOG.025
                         10k
                                Catalog and abstracts of CPMUG volume 26
          CATALOG.026
                         18k
S015.26
                          2k .
                                Catalog and abstracts of CPMUG volume 27
S015.27
          CATALOG.027
                                Catalog and abstracts of CPMUG volume 28
          CATALOG.028
                          3 k
S015.28
S015.29
                          3k
                                Catalog and abstracts of CPMUG volume 29
          CATALOG.029
                                Catalog and abstracts of CPMUG volume 30
                          1k
S015.30
          CATALOG.030
                          2k
                                Catalog and abstracts of CPMUG volume 31
S015.31
          CATALOG.031
S015.32
           CATALOG.032
                          1k
                                Catalog and abstracts of CPMUG volume 32
          CATALOG.033
                          2k
                                Catalog and abstracts of CPMUG volume 33
S015.33
                          4k
                                Catalog and abstracts of CPMUG volume 34
S015.34
          CATALOG.034
                                Catalog and abstracts of CPMUG volume 35
          CATALOG.035
                          5k
S015.35
S015.36
          CATALOG.036
                          8k
                                Catalog and abstracts of CPMUG volume 36
                                Catalog and abstracts of CPMUG volume 37
                          6 k
S015.37
          CATALOG.037
S015.38
                          7k
                                Catalog and abstracts of CPMUG volume 38
          CATALOG.038
                                Catalog and abstracts of CPMUG volume 39
S015.39
          CATALOG.039
                          6k
S015.40
                         11k
                                Catalog and abstracts of CPMUG volume 40
          CATALOG.040
S015.41
                                Catalog and abstracts of CPMUG volume 41
          CATALOG.041
                          9k
                                Catalog and abstracts of CPMUG volume 42
S015.42
                          8k
          CATALOG.042
S015.43
          SIGMLOG.001
                          2k
                                Catalog and abstracts on Sig/M volume 1
                                Catalog and abstracts on Sig/M volume 2
S015.44
          SIGMLOG.002
                          4k
                                Catalog and abstracts on Sig/M volume 3
S015.45
                          1k
          SIGMLOG.003
                                Contents of Sig/M Users Group volume 16
S016
          -CATALOG.016
                          2k
S016.01
                                Remote console program for PMMI - modem
          BYE67.ASM
                         39k
S016.02
                         12k
                                Remote console program for PMMI - modem
          BYE67.DOC
S016.03
                         12k
                                Multiple file LIST utility
          MLIST42.ASM
S016.04
          DU-V75.OBJ
                          6 k
                                Disk Utility system object file
S016.05
          DU-V75.DOC
                          5k
                                Documentation for Disk Utility system
S016.06
          DU-V75.ASM
                         40 k
                                Disk Utility system source file
S016.07
                                Creates file of BADspots on diskette
                         33 k
          FINDBD42.ASM
S016.08
          APLMODEM.ASM
                         36 k
                                Apple ][ CP/M file xfer w/ Micromodem 2
S016.09
          COMAND.LIB
                          7k
                                Console string processor
S016.10
                          7k
          COMBINE.ASM
                                Merges multiple files
S016.11
          FILE-XT2.ASM
                          8k
                                System disk utility display
                                Multi-pass CP/M memory tester
S016.12
                         28k
          MNEMON21.ASM
S017
                                Contents of Sig/M Users Group volume 17
          -CATALOG.017
                          2k
S017
          -CATALOG.ACK
                          1k
                                Acknowledgement file
S017.01
                          2k
                                Encode/decode a CP/M file
           SCRAMBLE.DOC
S017.02
           SCRAMBLE.ASM
                          6 k
                                Encode/decode a CP/M file
S017.03
           SORTV.DOC
                          2k
                                Variable length records SORT program
S017.04
           SORTV-12.ASM
                         13 k
                                Variable length records SORT program
                                Set/reset display the "no copy" flag
5017.05
           TAG2.ASM
                          6 k
8017.06
           MNEXEC.COM
                                MicroNet EXECutive
                          3 k
S017.07
           MNOVRLAY.ASM
                          4k
                                Overlay for MicroNet executive
           WHICH/1.ASM
S017.08
                          44
                                Returns size and version of CP/M
```

```
S017.09
          STATUS.ASM
                          8k
                                Present systems information under 2.2
                          5k
                                Quick CATalog routine
S017.10
          NEWQCAT.ASM
                          7 k
S017.11
          WORM8/8.ASM
                                Memory test diagnostic
          TFX12/18.ASM
                         21 k
                                CP/M to CP/M file transfer utility
S017.12
                         29k
                                Remote CP/M to CP/M file transfer
S017.13
          XMODEM41.ASM
                                Modifies MOVCPM for remote access
          MOVPATCH.ASM
                          3 k
S017.14
                         48k
                                Tarbell BIOS for CP/M 2.0
S017.15
          21BIOS.ASM
                          3 k
                                Documentation for Tarbell BIOS
S017.16
          21BIOS.DOC
                          4k
                                Tarbell BOOT for CP/M 2.0
S017.17
          21BOOT.ASM
                                MACRO library for Tarbell BIOS
                         18k
S017.18
          MACRO.LIB
                          9k
                                Tarbell BIOS SYSGEN program
S017.19
          NPGEN.ASM
                          4k
                                BIOS disk redefinition MACRO library
S017.20
          SPCLMAC.LIB
                                Updated CP/M DIRectory display
S017.21
          XDIR.ASM
                         13 k
                          2k
                                Updated CP/M DIRectory display
S017.22
          XDIR.COM
S018
                          2k
          -CATALOG.018
                                Contents of Sig/M Users Group volume 18
                          1k
                                Volume 70 Acknowledgement file
          -CATALOG.ACK
S018
                         18k
                                ICOM microfloppy memory DUMP utility
S018.01
          2411 DUMP.ASM
                          3k
                                ICOM microfloppy memory DUMP utility
S018.02
          2411 DUMP.COM
S018.03
          MFMACRO.LIB
                         17 k
                                ICOM 2411 MACRO library
                                                                              Dyn
                         21k
                                ICOM floppy memory DUMP utility
S018.04
          3812DUMP.ASM
          3812DUMP.COM
                          4k
                                ICOM floppy memory DUMP utility
S018.05
                         18k
                                ICOM 3812 MACRO library
S018.06
          DDMACRO.LIB
                         14k
                               Region and state AREA CODE search
S018.07
          AREACODE.ASM
                          7k
                               Region and state AREA CODE search
S018.08
          AREACODE.COM
S018.09
          BANZAI.ASM
                          9k
                                Copyright notice protect
S018.10
          CAT2.ASM
                          6 k
                               Master CATalog system for CP/M 2.X
                          7k
S018.11
          FMAP3.ASM
                                Sorted directory MAPping program
S018.12
          UCAT2.ASM
                          8k
                               Master CATalog update program
                          6k
S018.13
          CHAT15.ASM
                               CHAT with local remote CP/M operator
                          1k
                               CHAT with local remote CP/M operator
S018.14
          CHAT15.COM
S018.15
          DISPLAYP.ASM
                          3 k
                                DISPLAY ASCII file using ED.COM commands
                               DISPLAY ASCII file using ED.COM commands
S018.16
          DISPLAY.COM
                          2k
                               DISPLAY ASCII file using ED.COM commands
S018.17
          DISPLAY.DOC
                          3k
S018.18
          FILE-EXT.ASM
                          7k
                               Display diskette directory with hex data
S018.19
                          1k
                               Display diskette directory with hex data
          FILE-EXT.COM
S018.20
          FILE-XT2.ASM
                          8k
                               FILE-EXT.ASM w/ CP/M 2.X compatibility
S018.21
          FILE-XT2.COM
                          1k
                               FILE-EXT.ASM w/ CP/M 2.X compatibility
S018.22
          LOOK.ASM
                          7k
                               Search for 1-9 byte sequence in memory
S018.23
          LOOK.COM
                          1k
                               Search for 1-9 byte sequence in memory
S018.24
                          7k
          MACTIME.ASM
                               Patch for real TIME clock in MAC.COM
S018.25
          ASMTIME.ASM
                          7 k
                               Patch for real TIME clock in ASM.COM
S018.26
          STATTIME.ASM
                          6 k
                               Patch for real TIME clock in STAT.COM
S018.27
          SAP.ASM
                          6 k
                               Updated directory SORT & PACK for CP/M 2.X
S018.28
          SAP.COM
                          1 k
                               Updated directory SORT & PACK for CP/M 2.X
S018.29
          XLOOK.ASM
                         13 k
                               Disk examine/modify utility
S019
          <see ZO1>
S020
          <see ZO2>
S021
          <see ZO3>
S022
          <see ZD4>
S023
          <see ZO5>
S024
          <see Z06>
S025
          <see ZO7>
S026
          -CATALOG.026
                          3 k
                               Contents of Sig/M volume 026
S026
          -CATA026.ACK
                          1k
                               Acknowledgement file
S026
          CRCKLIST.026
                          2k
                               Checksum file
S026.01
          CHEAT.ADV
                          3 k
                                Unofficial ADVENTURE cheat sheet
$026.02
          CHEAT.DOC
                          1 K
                                Doc on ADVENTURE cheat sheet
```

```
VEGAS.ASM
                          26 K
                                Super slot machine
S026.03
S026.04
           EL-E.BAS
                          18K
                                Electrical engineering/design system
           EL-E.INT
                          16K
                                Electrical engineering/design system
S026.05
                           2 K
                                Doc on EE design system
S026.06
           EL-E.DOC
                           1 K
                                Ham notebook - CBASIC
           QSO.BAS
S026.07
                           4K
                                EDIT for ham notebook
           QSOEDIT.BAS
S026.08
           QSOMERGE.BAS
                           2 K
                                MERGE for ham notebook
S026.09
                           1 K
                                FIND for ham notebook
S026.10
          QSOFIND.BAS
                           4K
                                SCAN for ham notebook
          QSOSCAN.BAS
S026.11
                           1 K
                                LIST for ham notebook
S026.12
          QSOLIST.BAS
                           2K
           QSO.DOC
                                DOC for ham notebook
S026.13
          SYSMON.ASM
                         36K
                                Front panel emulator source file
S026.14
                           5K
                                Front panel emulator object file
           SYSMON.COM
S026.15
           SYSMON.DOC
                           6 K
                                Front panel emulator documentation
S026.16
                           1 K
                                Front panel emulator MACRO library
           SVC.LIB
S026.17
                          13K
                                VersaFloppy II double density BIOS
S026.18
          MYDDBIOS.Z80
                                VersaFloppy II DD BIOS documentation
                           4K
S026.19
          MYDDBIOS.DOC
S026.20
          DDSKBIOS.ASM
                           2 K
                                VersaFloppy II double density BIOS
                           2 K
          MYBOOT.Z80
                                BOOT for VersaFloppy II DD BIOS
S026.21
                         10K
                                FORMAT for VersaFloppy II DD BIOS
S026.22
          FORMAT.Z80
                           4K
                                SYSGEN for VersaFloppy II DD BIOS
S026.23
          SYSGEN.Z80
                           3 K
          XEDIT.BAS
                                Simple MAIL label system - data entry EDITor
S026.24
          XEDIT.INT
                          2 K
                                Simple MAIL lable system
S026.25
                           2 K
                                File MERGE - MAIL label system
S026.26
          XMERGE.BAS
S026.27
          XMERGE.INT
                           1 K
                                File MERGE - MAIL label system
                          2K
                                Delete items from master MAIL list
S026.28
          XSCAN.BAS
S026.29
          XSCAN.INT
                          1 K
                                Delete items from master MAIL list
                           2K
                                EXTRACT items from master MAIL list
S026.30
          XEXTRACT.BAS
                                EXTRACT items from master MAIL list
S026.31
          XEXTRACT.INT
                           1 K
                           1 K
                                LIST items from master MAIL list
S026.32
          XLIST.BAS
S026.33
          XLIST.INT
                          1 K
                                LIST items from master MAIL list
                          2 K
                                MAIL LABEL print
S026.34
          XLABELS.BAS
                          1 K
                                MAIL LABEL print
S026.35
          XLABELS.INT
                          1 K
SD26.36
          XFIND.BAS
                                Query of master MAIL list
SO26.37
                          1 K
          XFIND.INT
                                Query of master MAIL list
                          1 K
S026.38
          XTEL.BAS
                                Query by TELephone number
                           1 K
                                Query by TELephone number
SO26.39
          XTEL.INT
S026.40
          XMAIL.DOC
                          3 K
                                Simple MAIL label system - documentation
          <see ZO8>
S027
S028
          <see Z09>
S029
          -CATALOG.029
                          1k
                                Contents of Sig/M volume 29
S029
          CRCKLIST.029
                          1k
                                CRC of each file in volume 29
S029.01
          CATALOG.043
                          2k
                                Catalog and abstracts of CPMUG volume 43
S029.02
                           9k
                                Catalog and abstracts of CPMUG volume 44
          CATALOG.044
S029.03
          CATALOG.045
                           4k
                                Catalog and abstracts of CPMUG volume 45
S029.04
                         23 k
          CATALOG.046
                                Catalog and abstracts of CPMUG volume 46
S029.05
          CATALOG.047
                         25k
                                Catalog and abstracts of CPMUG volume 47
5029.06
          CATALOG.048
                         10k
                                Catalog and abstracts of CPMUG volume 48
S029.07
          CATALOG.049
                         27 k
                                Catalog and abstracts of CPMUG volume 49
S029.08
          CATALOG.050
                         32k
                                Catalog and abstracts of CPMUG volume 50
S029.09
          CATALOG.051
                         14k
                                Catalog and abstracts of CPMUG volume 51
S029.10
          SIGMLOG.004
                         10k
                                Catalog and abstracts of Sig/M volume 4
S029.11
          SIGMLOG.005
                         18k
                                Catalog and abstracts of Sig/M volume 5
S029.12
          SIGMLOG.006
                         28k
                                Catalog and abstracts of Sig/M volume 6
5029.13
                           5k
          SIGMLOG.007
                                Catalog and abstracts of Sig/M volume 7
S029.14
          SIGMLOG.008
                         12k
                                Catalog and abstracts of Sig/M volume 8
5029.15
          SIGMLOG.009
                           8k
                                Catalog and abstracts of Sig/M volume 9
S029.16
           SIGMLOG.010
                          9k
                                Catalog and abstracts of Sig/M volume 10
S029.17
          SIGMLOG.011
                           1k
                                Catalog and abstracts of Sig/M volume 11
S030
           -CATALOG.030
                           1 k
                                Contents of Sig/M volume 30
S030
           CRCKLIST.030
                           1k
                                CRC of each file in volume 30
S030.01
          SIGMLOG.012
                                Catalor and abstracts of Sig/M volume 12
                           1 k
```

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S030.02
          SIGMLOG.013
                         15k
                                Catalog and abstracts of Sig/M volume 13
8030.03
          SIGMLOG.014
                          1k
                                Catalog and abstracts of Sig/M volume 14
                         17k
                                Catalog and abstracts of Sig/M volume 16
S030.04
          SIGMLOG.016
                          8k
                                Catalog and abstracts of Sig/M volume 17
S030.05
          SIGMLOG.017
S030.06
          SIGMLOG.018
                          5k
                                Catalog and abstracts of Sig/M volume 18
          SIGMLOG.019
                         29k
                                Catalog and abstracts of Sig/M volume 19
S030.07
80.0802
          SIGMLOG.020
                          3 k
                                Catalog and abstracts of Sig/M volume 20
                         15k
                                Catalog and abstracts of Sig/M volume 21
          SIGMLOG.021
S030.09
                                Catalog and abstracts of Sig/M volume 22
          SIGMLOG.022
                          9k
S030.10
                                Catalog and abstracts of Sig/M volume 23
                         38k
          SIGMLOG.023
S030.11
          SIGMLOG.024
                          7 k
                                Catalog and abstracts of Sig/M volume 24
S030.12
                         41 k
                                Catalog and abstracts of Sig/M volume 25
S030.13
          SIGMLOG.025
S030.14
          SIGMLOG.026
                         20k
                                Catalog and abstracts of Sig/M volume 26
          SIGMLOG.027
                          3k
                                Catalog and abstracts of Sig/M volume 27
$030.15
                         24k
                                Catalog and abstracts of Sig/M volume 28
S030.16
          SIGMLOG.028
          -CATALOG.031
                                Contents of Sig/M volume 031
S031
S031
          CRCKLIST.031
                                CRC of each file on volume 031
                         19k
                                Documentation for Yale catalog of bright STARs
S031.01
          STAR.DOC
S031.02
          STAR BAS
                          5k
                                Reads and prints data from STAR catalog
          STARVAL.BAS
                          4k
                                STAR database validation routine
S031.03
S031.04
          STAR1.DAT
                        177k
                                Yale catalog of bright STARs Vol 1 of 8
                         10k
S031.05
          STAR1.BAD
                                Sample test errors for STARVAL
S031.06
          IKB-1.ROM
                          8k
                                IMSAI keyboard 2716 EPROM code
                          4k
S031.07
          IKB-2.ROM
                                IMSAI keyboard 2708 EPROM code
S031.08
          IKB-1&2.DOC
                          1 k
                                IMSAI keyboard EPROM documentation
S032
          -CATALOG.032
                                Contents of Sig/M volume 032
S032
          CRCKLIST.032
                          1k
                                Checksum file
S032.01
          STAR2.DAT
                        235K
                                Yale catalog of bright STARs Vol 2 of 8
                                Contents of Sig/M volume 033
S033
          -CATALOG.033
$033
          CRCKLIST.033
                          1k
                                Checksum file
S033.01
          STAR3.DAT
                        235K
                                Yale catalog of bright STARs Vol 3 of 8
S034
          -CATALOG.034
                                Contents of Sig/M volume 034
S034
                                Checksum file
          CRCKLIST.034
                          1k
S034.01
          STAR4.DAT
                        235K
                                Yale catalog of bright STARs Vol 4 of 8
S035
          -CATALOG.035
                                Contents of Sig/M volume 035
S035
          CRCKLIST.035
                                Checksum file
                        235k
S035.1
          STAR5.DAT
                                Yale catalog of bright STARs Vol 5 of 8
S036
          -CATALOG.036
                                Contents of Sig/M volume 036
S036
          CRCKLIST.036
                                Checksum file
S036.1
          STAR6.DAT
                        235k
                                Yale catalog of bright STARs Vol 6 of 8
S037
          -CATALOG.037
                                Contents of Sig/M volume 037
S037
          CRCKLIST.037
                                Checksum file
S037.1
          STAR7.DAT
                        235k
                                Yale catalog of bright STARs Vol 7 of 8
$038
          -CATALOG.038
                                Contents of Sig/M volume 038
S038
          CRCKLIST.038
                                Checksum file
S038.1
          STARB.DAT
                        235k
                                Yale catalog of bright STARs Vol 8 of 8
S039
          -CATALOG.039
                          1k
                                Contents of Sig/M volume 039
S039
          ACKLIST.039
                          1 k
                                acknowledgement file
S039
          CRCKLIST.039
                          2k
                                Checksum file of Sig/M volume 39
S039.01
          3740UTIL.SUB
                          1 K
                                3740 disk UTILity subroutine
5039.02
          3740UTIL.DOC
                          8 K
                                Updated 3740 disk UTILity documentation
S039.03
          3740UTIL.ASM
                         67 K
                                Updated 3740 disk UTILity source file
S039.04
          3740UTIL.COM
                         13K
                                Updated 3740 disk UTILity object file
S039.05
          MACS3740.LIB
                         17K
                                3740 disk utility MACRO LIBrary
S039.06
          EGRAMMAR.GMR
                          1 K
                                Extended GRAMMAR for Language Analyzer
S039.07
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                           1 K
                                ARP Billing label report
S049.22
          ARP040
                   .PLI
                           8K
                                ARP Customer list report
S049.23
                                ARP Customer list report
          ARP040
                   .SUB
                           1 K
S049.24
          ARP050
                   .PLI
                           5K
                                ARP Customer file off-load
S049.25
          ARP050
                    .SUB
                           1 K
                                ARP Customer file off-load
$049.26
           ARPO60
                   .PLI
                           5K
                                ARP Customer file load
                   .SUB
S049.27
           ARPO60
                           1 K
                                ARP Customer file load
S049.28
           ARP070
                    .PLI
                           6 K
                                ARP Telephone call report
S049.29
           ARP070
                   .SUB
                           1 K
                                ARP Telephone call report
S049.30
           CHAIN
                   .ASM
                           6 K
                                PL/1 CHAIN routine
S049.31
                                MasterDBS - Get a decimal number from terminal
           GETD92
                   .PLI
                           2K
5049.32
           MDBSAMS .PLI
                           1 K
                                MasterDBS - Add a member to a set
S049.33
           MDBSCALL.SUB
                           1 K
                                MasterDBS - Call interface batch processor
S049.34
                   .ASM
           MDBSCL
                           4K
                                MasterDBS - Call interface program
S049.35
           MDBSCL01.ASM
                           3 K
                                MasterDBS - Call interface type 1
5049.36
           MDBSCL02.ASM
                           4K
                                MasterDBS - Call interface type 2
S049.37
           MDBSCL03.ASM
                                MasterDBS - Call interface type 3
                           3 K
S049.38
           MDBSCRS .PLI
                           1 K
                                MasterDBS - Create record and store data
S049.39
           MDBSDRM .PLI
                           1 K
                                MasterDBS - Delete a member from a set
S049.40
           MDBSER
                  .ASM
                           6 K
                                MasterDBS - Error messa e vrogram
```

```
MasterDBS - Error message program in PL/1
   S049.41
                       .PLI
                              5K
              MDBSER
              MDBSFFM .PLI
                                    MasterDBS - Find first member of a set
                              1 K
   S049.42
                              1 K
                                    MasterDBS - Find member of set based on sort key
   S049.43
              MDBSFMSK.PLI
              MDBSFNM .PLI
                              1 K
                                    MasterDBS - Find next member of a set
   S049.44
                              1 K
                                    MasterDBS - Get a member of a set
              MDBSGETM.PLI
   S049.45
                                    MasterDBS - Initialization & chain program
   S049.46
              MDBSPLII.ASM
                              5K
              MDBSPLII.SUB
                              1 K
                                    MasterDBS - Init & chain batch processor
   S049.47
                                    MasterDBS - Put a member of a set
   S049.48
              MDBSPUTM.PLI
                              16
              MDBSRMS .PLI
                              1 K
                                    MasterDBS - Remove current member from a set
   S049.49
              MDBSSOM .PLI
                              1 K
                                    MasterDBS - Set current owner w/current member
   S049.50
                             12K
                                    DC Haves MODEM subroutines
   S049.51
              MODEM
                       .ASM
   S049.52
              OUTTEL
                       .PLI
                              1 K
                                    OUTput a TELephone number
              OUTZIP
                       .PLI
                              1 K
                                    OUTput a ZIP code
   S049.53
              PLIAUX
                       .SUB
                              1 K
                                    Generate PL/1 AUXillary file on A:
   S049.54
                       .PLI
                              1 K
                                    PUT ERRor message to console
              PUTERR
   S049.55
              SCRNMAC
                       .LIB
                              ЗК
                                    MACro to clear SCReeN on SOROC 120
   S049.56
                       .ASM
                             29K
                                    SCReen handling subroutine
              SCRRTN
   S049.57
                       .SUB
                              1 K
                                    Compile PL/1 SUBroutineS - batch processor
   S049.58
              SUBS1
   S050
              -CATALOG.050
                                    Contents of Sig/M volume 50
   S050.01
              BIOS1
                              6 K
                                    DTC hard/floppy disk BIOS version 2.2B
                             16K
                                    DTC hard/floppy disk BIOS
              BIOS2
   S050.02
   S050.03
              BIOS3
                             12K
                                    DTC hard/floppy disk BIOS
                              2K
                                    DTC hard/floppy disk BIOS
   S050.04
              BIOS4
                              5 K
                                    DTC hard disk BOOT
   S050.05
              BOOT
              CONFIG
                              3 K
                                    DTC 510 controller config
   S050.06
                              6 K
                                    DTC 510 controller equates
   S050.07
              DTC
                              5K
   S050.08
              DTCLOAD .ASM
                                    DTC LOADer source file
                                    DTC LOADer command file
                              1 K
   S050.09
              DTCLOAD .COM
                              2K
                                    DTC LOADer HEX file
   S050.10
              DTCLOAD .HEX
                             10K
   S050.11
              DTCLOAD .PRN
                                    DTC LOADer assembled print file
   S050.12
              FORMAT
                             16K
                                    FORMAT for DTC hard disk BIOS
   S050.13
                              4K
                                    CompuPro Interfacer board equates
              GBC
                              4K
                                    DTC hard disk BIOS INSTALL program
   S050.14
              INSTALL .
   S050.15
              MODEL
                              1 K
                                    DTC hard disk BIOS support
                              6 K
                                    Instructions on installing the DTC system
   S050.16
              README
   S050.17
              ROM
                              4K
                                    DTC hard disk ROM BOOT
   S050.18
              SBC
                              4K
                                    Intel SBC 80/30 single board computer I/O equates
                                   SYSCMD Version 2.1 - DTC hard disk BIOS support
   S050.19
                              4K
              STSCMD
                       .SUB
                                   DTC hard disk BIOS support
   S050.20
              STSCMD
                              1 K
   S050.21
                             19K
                                    DTC hard disk BIOS support
              STSCOPY
                      .SUB
   S050.22
              STSCOPY
                              1 K
                                   DTC hard disk BIOS support
                                   DTC hard disk system
   S050.23
              SYSCMD
                              4K
   S050.24
              SYSCMD
                              1 K
                                   DTC hard disk BIOS support
                       .SUB
                              2 K
   S050.25
              SYSTEM
                       .SUB
                                   DTC hard disk BIOS support
   S050.26
                       .ASM
                              4K
                                   Select drive & User area w/1 command
              U
   S050.27
              U
                       .COM
                              1 K
                                   Select drive & User area w/1 command
   S050.28
              U
                       .HEX
                              2K
                                   Select drive and User area
   S050.29
                       .PRN
                              6 K
                                   Select drive and User area
   S050.30
              TALK@
                       .LIB
                              1 K
                                   Starting place for writing new voice programs
   S050.31
              VMAC
                       .ASM
                              3 K
                                   MAC assembler overlay
   $050.32
              VMAC
                       .HEX
                              1 K
                                   HEX file for VMAC
   5050.33
              VMAC
                              5K
                                   Assembled print file for VMAC
                       .PRN
   S050.34
              AOIC@
                       .DOC
                              3 K
                                   Documentation for speech synthesis system
   S050.35
              VOIC@
                             18K
                                    Driver for CP/M phoneme definitions & dictonary
                       .LIB
   5050.36
              VOIC@EQU.LIB
                              6 K
                                   Driver for CP/M phoneme definitions
   S050.37
                              3 K
              VRMAC
                                   RMAC assembler overlay
                       .ASM
   S050.38
              VRMAC
                       .HEX
                              1 K
                                   HEX file for VRMAC
   S050.39
              VRMAC
                       .PRN
                              5K
                                   Assembled print file for VRMAC
   S050.40
              YESMASTR.VOC
                              1 K
                                   Speech synthesis - "yes master" test program
   S051
              -CATALOG.051
                                   Contents of Sig/M volume 51 - January 2, 1982
   S051.01
              EXTRACT . CPM
                              5K
                                    CPMUG volume titles
   S051.02
              EXTRACT .SIG
                                    Sig/M volume titles
                              5K
9 5051.03
              MEM01981.SIG
                                   Sig/M 1981 memo's
                              6 K
              NEWSO281.SIG
                              2 K
                                    S o'M F + I va
                                                    1981 ne eletter
   S051.04
```

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NEWS0481.SIG
                                 Sig/M April 1981 newsletter
S051.05
                            8 K
                                 Sig/M May 1981 newsletter
                           8K
SO51.06
           NEWS0581.SIG
S051.07
           NEWS0681.SIG
                           8 K
                                 Sig/M June 1981 newsletter
                           8 K
                                 Sig/M July 1981 newsletter
S051.08
           NEWS0781.SIG
                                 Sig/M August 1981 newsletter
           NEWS0881.SIG
S051.09
                           8 K
           NEWS0981.SIG
                           4K
                                 Sig/M September 1981 newsletter
S051.10
                           8K
                                 Sig/M October 1981 newsletter
S051.11
           NEWS1081.SIG
                           3 K
                                 Sig/M November 1981 newsletter
           NEWS1181.SIG
S051.12
                           7 K
                                 Sig/M December 1981 newsletter
           NEWS1281.SIG
S051.13
                          13K
                                 Sig/M 1980 newsletter
S051.14
           NEWS1980.SIG
                          91 K
                                 Summary of CPMUG catalogs
S051.15
           SUMMARY .CPM
                                 Summary of Sig/M catalogs
           SUMMARY .SIG
                          48K
S051.16
S052
           -CATALOG.052
                           1k
                                 Contents of Sig/M volume 52
                           5k
                                 Sig/M volume 52 documentation
           ABSTRACT.052
S052
                           1 K
                                 CATaloging program
S052.01
           CAT
                    .COM
                    .COM
                           2 K
                                 Sorted directory MAPping program
S052.02
           FMAP
                           2K
S052.03
           UCAT
                    .COM
                                 CATalog Update program
                                 LISTs contents of CPMUG and SIG/M volumes
S052.04
           CATALIST.BAS
                           8 K
                          22K
S052.05
           CATALIST.COM
                                 Object catalog LIST program
                           2K
                                 PADs spaces for fixed length records
S052.06
           SCATPAD .BAS
                          15K
                                 PADs spaces for fixed length records
S052.07
           SCATPAD .COM
                                 Sig/M-CPMUG reference data
S052.08
           SCAT
                          69K
                          72K
                    .CAT
                                 Sig/M-CPMUG reference data
           MAST
S052.09
S052.10
           TestProt.BAS
                           1 K
                                 Sample 'P'rotected file
                           5K
                                 un'P'rotect MBASIC programs
S052.11
                    .COM
S053
           -CATALOG.053
                                 Contents of Sig/M volume 53
                                 SAM76 documentation
S053
           ABSTRACT.053
                                 ASTROlogical signs for graphics
                           8 K
S053.01
           ASTRO
                    .FNT
                    . DOC
                           1 K
                                 Documentation on COPY features of SAM76
S053.02
           BONUS
S053.03
           BOOK
                    .DOC
                           1 K
                                 How to order SAM76 manual
S053.04
           CPMSETL .COM
                           1 K
                                 Sets up SAM76 for CP/M monitor
                    .SAM
                           3 K
                                 Some interesting DEMO programs
S053.05
           DEMO
                    .SAM
                           1 K
                                 Disk DIRectory FIX routine
S053.06
           DIRFIX
                          19K
S053.07
           EXTF
                    .ASM
                                 Various routines, including clock driver
                    .DOC
S053.08
                           1 K
                                 Documentation on EXTF
           EXTF
                           1 K
                                 Version of SAM76 that runs at 8000H
S053.09
           FRIEND
                    .DOC
S053.10
                    .SAM
                           2 K
                                 Sets up SAM for load-and-Go
S053.11
           HOOH
                    .SAM
                           1 K
                                 Hex to octal to hex
                                 Interpreted HEX-ASCII file DUMP (**)
S053.12
           IDUMP
                    .COM
                           1 K
                                 Raw copy of SAM76 - see READ-ME.DOC & S.DOC
                          13K
S053.13
           ILRAW
                    .COM
           INFO
                          10K
                                 Creates following .DOC files
S053.14
                    .SAM
                    .DOC
S053.15
           INF01
                           1 K
                                 <<Empty>> ??
                           1 K
S053.16
           INFO2
                    .DOC
                                 How to use SAM76
                    . DOC
                           2 K
                                 How to use SAM76 continued
S053.17
           INF03
S053.18
           INFO4
                    .DOC
                           1 K
                                 <<Empty>> ??
S053.19
           INF05
                    .DOC
                           2K
                                 New features of SAM76
S053.20
           LABEL
                    .SAM
                           3 K
                                 SAM demo program
S053.21
                           1 K
           LOOP
                    .SAM
                                 SAM demo program
                    .SAM
                                 SAM demo program
S053.22
           MOVE2
                           1 K
S053.23
           MULT
                    .SAM
                           1 K
                                 MULTiplies long decimal #'s
S053.24
           NEWS
                    .SAM
                           5K
                                 Random NEWS story generator
S053.25
           P1UR
                    .FNT
                          10K
                                 Used with graphics
                                 SAM76 overlay permits plotting of vector graphics
S053.26
                          15K
           PLOT
                    .ASM
S053.27
                    .DOC
                           1 K
                                 Documentation for PLOT
           PLOT
                           7 K
                                 PRINT SAM files
S053.28
                    .SAM
           PRINT
S053.29
           READ-ME .DOC
                           3 K
                                 Initial setup
S053.30
           S
                    .DOC
                           2 K
                                 DOC on creating S.COM
S053.31
           SIZE
                    .SAM
                           1 K
                                 SAM Demo program
                    .SAM
5053.32
                           1 K
                                 SAM Demo program
           SIZLST
$053.33
           SLED
                    .SAM
                           4K
                                 SAM Demo program
S053.34
           THREED
                    .SAM
                           4K
                                 SAM Demo program
                                 DOC of SAM (nonstandard text/file format)
S053.35
           UPD051
                           7 K
                    .TXT
S053.36
                    .TXT
                                 DOC of SAM (nonstandard text/file format)
           UPD052
                           7 K
           VFRIFY
                           1 K
S053.37
                    . SAM
```

```
.DOC
S053.38
           VOLSAM
                           6 K
                                 Volume documentation ("extended abstract")
                           3 K
S053.39
           X$UTIL
                    .SAM
                                 Demo
S054
           -CATALOG.054
                                 Contents of Sig/M volume 54
           BDOSLOC .ASM
                           2K
                                 BDOS and CCP locator
S054.01
S054.02
           DISK
                    .DIR
                           1 K
                                 ZCPR distribution disk DIRectory
                           6 K
                                 Explains ZCPR
           READ
                    . ME
S054.03
           SIG/M
                    . SUB
                           4K
                                 Contribution form
S054.04
                          51 K
                                 Z80 replacement for the CP/M CCP - uses MAC
           ZCPR
                    .ASM
S054.05
                    .DOC
                          45K
                                 Documentation on ZCPR
S054.06
           ZCPR
                          15K
                                 Summary of the new features of ZCPR
           ZCPR
                    .HLP
S054.07
                    .WS
S054.08
           ZCPR
                          40 K
                                 Wordstar source to DOC file on ZCPR
                    .ADD
                           1 K
                                 Capture CONIN and CONOUT on disk file
           I/O-CAP
S054.09
           I/O-CAP
                    .ASM
                          19K
                                 Capture CONIN and CONOUT on disk file
S054.10
                    .ASM
                           3 K
                                 2.2 BOOT for Thinker Toys disk jockey
           TTBOOT
S054.11
                                 2.2 BIOS for Thinker Toys disk jockey
                    .ASM
           TTCBIOS
                           7 K
S054.12
                                 How to bring up BIOS for Thinker Toys disk jockey
                           4K
                    .HLP
           TTSDDJ
S054.13
                                 Contents of Sig/M volume 55
S055
           -CATALOG.055
           SIGMLOG .031
                          20K
                                 Sig/M volume 31 documentation
5055.01
           SIGMLOG .032
                           1 K
                                 Sig/M volume 32 documentation
S055.02
           SIGMLOG .033
                           1 K
                                 Sig/M volume 33 documentation
S055.03
                                 Sig/M volume 34 documentation
                           1 K
S055.04
           SIGMLOG .034
           SIGMLOG .035
                           1 K
                                 Sig/M volume 35 documentation
S055.05
S055.06
           SIGMLOG .036
                           1 K
                                 Sig/M volume 36 documentation
                           1 K
                                 Sig/M volume 37 documentation
S055.07
           SIGMLOG .037
S055.08
           SIGMLOG .038
                           1 K
                                 Sig/M volume 38 documentation
           SIGMLOG .039
                          15K
                                 Sig/M volume 39 documentation
S055.09
                          11K
                                 Sig/M volume 40 documentation
           SIGMLOG .040
S055.10
                                 Sig/M volume 41 documentation
           SIGMLOG
                    .041
                           9K
S055.11
                                 Sig/M volume 42 documentation
           SIGMLOG .042
                          13K
S055.12
S055.13
           SIGMLOG
                   .043
                          24K
                                 Sig/M volume 43 documentation
                                 Sig/M volume 44 documentation
S055.14
           SIGMLOG .044
                          39K
S055.15
           SIGMLOG .045
                          23 K
                                 Sig/M volume 45 documentation
           SIGMLOG .046
                           1 K
                                 Sig/M volume 46 documentation
S055.16
           SIGMLOG .047
                           1 K
                                 Sig/M volume 47 documentation
S055.17
S055.18
           SIGMLOG
                    .048
                          24K
                                 Sig/M volume 48 documentation
S055.19
           SIGMLOG .049
                           4K
                                 Sig/M volume 49 documentation
S055.20
           SIGMLOG .050
                           5K
                                 Sig/M volume 50 documentation
                           1 K
                                 Sig/M volume 51 documentation
S055.21
           SIGMLOG .051
           SIGMLOG .052
                           6 K
                                 Sig/M volume 52 documentation
S055.22
S055.23
           SIGMLOG .053
                          12K
                                 Sig/M volume 53 documentation
S056
           -CATALOG.056
                                 Contents of Sig/M volume 56
                                Musicraft system 2 pass COMPiler
S056.01
           COMP
                    .COM
                           8K
S056.02
                    .COM
                          11K
                                Musicraft system EDITor
           EDIT
S056.03
           HELP
                    .MUS
                          42 K
                                Musicraft system HELP facility
                                Musicraft MUSIC system
S056.04
           MUSIC
                    .COM
                           4K
                           1 K
S056.05
           PCOPY
                    .COM
                                Musicraft system COPY program
S056.06
                    .COM
                           1 K
           PRINT
                                 Musicraft system - obtain PRINTed score
                                Musicraft system - load and PLAY music
S056.07
           PLAY
                    .COM
                           9K
S056.08
           READ
                    . ME
                           1 K
                                How to get into the Musicraft system
S056.09
           SETUP
                    .COM
                          14K
                                Tailor the programs to your system
                    .COM
                           7 K
S056.10
           UTIL
                                Musicraft system - UTILity program
S056.11
                    .COM
                           7 K
           WAVE
                                Musicraft system - instrument WAVEform generator
S056.12
           APND1
                    .DOC
                          17K
                                Musicraft setup worksheet documentation
                          3 K
S056.13
                    .DOC
                                Musicraft worksheet documentation continued
           APND2
                    .DOC
S056.14
           CHECK
                          14K
                                Initial CHECKout documentation
                    .DOC
S056.15
           INTRO
                          16K
                                 Table of Contents & INTRO to Musicraft system
S056.16
           OPTNS
                    .DOC
                          16K
                                OPTION line description
S056.17
           PROG1
                    .DOC
                          19K
                                Programs description
S056.18
                    .DOC
           PROG2
                          17K
                                Programs description continued
S056.19
           PROG3
                    .Doc
                          19K
                                Programs description continued
                                 Contents of Sig/M volume 57
S057
           -CATALOG.057
           ALEGRETO, SNG
                           3 K
S057.01
                                 Musicra t selection
```

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S057.02
           BACHBUCH.SCD
                            1 K
                                 Musicraft jukebox menu selection
                    .SNG
                            8 K
                                 Musicraft selection
           BBB
S057.03
                            1 K
                                 Musicraft selection
S057.04
           BIRTHDAY.SNG
                            4K
                                 Musicraft selection
S057.05
           BOURREE .SNG
                                 Musicraft selection
           CAPRICIO.SNG
                            4K
S057.06
                            1 K
                                 Musicraft waveform table
S057.07
           CLARINET.WAV
                            1 K
                                 Musicraft jukebox menu selection
           CLASSICS.SCD
S057.08
                            7 K
                                 Musicraft selection
S057.09
           CODA
                    .SNG
                            2K
                                 Musicraft selection
           DUET
                    .SNG
S057.10
                                 Musicraft waveform table
           EQ12
                    . WAV
                            1 K
S057.11
           EQ124
                                 Musicraft waveform table
                    .WAV
                            1 K
S057.12
                                 Musicraft selection
S057.13
           FLS
                    .SNG
                            9 K
           FUGHETTO.SNG
                            3 K
                                 Musicraft selection
S057.14
                            7 K
                                 Musicraft selection
SD57.15
           GAVOTTE .SNG
           INTERACT.SCD
                            1 K
                                 Musicraft jukebox menu selection
S057.16
                            6 K
                                 Musicraft selection
           INVENT1 .SNG
S057.17
                            7 K
                                 Musicraft selection
S057.18
           INVENTS .SNG
                            7 K
           INVENT4 .SNG
                                 Musicraft selection
S057.19
                                 Musicraft selection
S057.20
           INVENT8 .SNG
                            7 K
                    .SNG
           KYBD1
                            3 K
                                 Musicraft selection
S057.21
                            1 K
                                 Musicraft selection
S057.22
           KYBD2
                    .SNG
                            1 K
                                 Musicraft selection
                    .SNG
           KYBD3
S057.23
                    .SNG
                            3 K
                                 Musicraft selection
S057.24
           KYBD4
                           1 K
                                 Musicraft jukebox menu selection
                    .SCD
           MODERN
S057.25
S057.26
           MOLTO
                    .SNG
                            5K
                                 Musicraft selection
                            4K
                                 Musicraft selection
S057.27
           MOZART
                    .SNG
S057.28
           OBOE
                    .WAV
                           1 K
                                 Musicraft waveform table
                           1 K
                                 Musicraft waveform table
S057.29
           ORGAN
                    . WAV
S057.30
           ORIGINAL.SCD
                           1 K
                                 Musicraft jukebox menu selection
                    .SNG
                                 Musicraft selection
                            5K
S057.31
           PAUL
                          10K
                                 Musicraft selection
           PRAELUD1.SNG
S057.32
                           1 K
S057.33
           READ
                    .ME
                                 Musicraft selection
S057.34
           SAW2
                    .WAV
                           1 K
                                 Musicraft waveform table
                           1 K
                                 Musicraft waveform table
S057.35
           SAW3
                    .WAV
                    .WAV
                           1 K
                                 Musicraft waveform table
S057.36
           SAW4
                           1 K
                                 Musicraft waveform table
S057.37
           SAWTOOTH.WAV
                                 Musicraft selection
                          18K
S057.38
           SCARLATI.SNG
                            4K
                                 Musicraft selection
S057.39
           SCHERZO .SNG
S057.40
           SHOSTO1 .SNG
                          10K
                                 Musicraft selection
S057.41
                    .WAV
                           1 K
                                 Musicraft waveform table
           SINE
                                 Musicraft waveform table
S057.42
           SQUARE
                    .WAV
                           1 K
                           6 K
                                 Musicraft selection
S057.43
           T42
                    .SNG
                    .SNG
S057.44
                           7 K
                                 Musicraft selection
           TRNS
                                 Musicraft waveform table
S057.45
           TRUMPET .WAV
                           1 K
                           1 K
                                 Musicraft waveform table
S057.46
           TRUMPET2.WAV
S057.47
                           6 K
                                 Musicraft selection
           VANBEET .SNG
           WAVES .SCD
                           1 K
                                 Musicraft selection
S057.48
                           1 K
                                 Musicraft selection
                    .SNG
S057.49
           WAVES
S058
                                 Contents of Sig/M volume 58
           -CATALOG.058
                                 Musicraft logical I/O system source for CP/M
                    .sqc
S058.01
           CIOS
                            9K
                                 Musicraft logical I/O system source for CP/M
S058.02
           CIOSP
                    . SQC
                           5K
                          12K
                                 Musicraft compiler source code
$058.03
           COMP1
                    .sqc
                                 Musicraft compiler source code
S058.04
           COMP2
                    .sac
                           1 K
                                 Musicraft CP/M equates
                    .sqc
                           1 K
           CPM
S058.05
                    .sac
                           6 K
                                 CP/M version of UTIL subroutine package
S058.06
           CUTIL
                                 Musicraft development system EDITor source code
                          11K
S058.07
           EDIT1
                    .sqc
                                 Musicraft development system EDITor source code
                    .sqc
                           7 K
S058.08
           EDIT2
                                 Musicraft development system EDITor source code
                    .sac
S058.09
           EDIT3
                          11K
                                 Musicraft development system EDITor source code
S058.10
           EDIT4
                    .sac
                           6 K
                                 Musicraft development system EDITor source code
                    .sqc
S058.11
           EDIT5
                           1 K
                                 Musicraft floating point source code
S058.12
                    .sqc
                          11K
           FLOAT
                                 Musicraft MACROs source code
S058.13
           MACROS
                    .sqc
                            4K
                                 Musicraft MUSIC development system source
                            5K
S058.14
           MUSIC1
                    .sac
S058.15
                    .sac
                                 Musicraft MUSIC development system source
           MUSIC2
                           1 K
                           12K
                                 Musicraft system - play a song
S058.16
           PLAY1
                    . SQC
```

```
.SQC
                           7 K
                                Musicraft system - play a song
S058.17
           PLAY2
                                 Logical I/O system for TRS-80 level 2
                    .sqc
                           5K
S058.18
           TIOS
           TIOSP
                    .sac
                           5K
                                 Logical I/O system for TRS-80 level 2
S058.19
           TRS80
                    .sqc
                           1 K
                                TRS-80 implementation of Musicraft system
S058,20
                    .sqc
                           5K
                                TRS-80 version of UTILity subroutine package
           TUTIL
S058.21
S058.22
           UTIL1
                    .sac
                          12K
                                UTILity subroutine package source code
           UTIL2
                    .SQC
                           2 K
                                UTILity subroutine package source code
S058.23
                                 Generates attribute library of instruments
                    .sac
                          12K
S058.24
           WAVE1
                           2K
           WAVE2
                    .sqc
                                Generates attribute library of instruments
S058.25
                    .COM
                          14K
S058.26
           SQ
                                SQueeze compression program
                          10K
S058.27
           USQ
                    .COM
                                UnSQueeze expansion program
           -CATALOG.059
                                Contents of Sig/M volume 59
S059
                   .LIB
           SIG/M
                                Sig/M library submittal form
S059
                                Computes CRC for files
           CRCK
                    .COM
S059
                    .ASM
                                Users level ABORT for BDS-C version 1.44
           CABORT
                           2K
S059.01
                           1 K
                                Users level ABORT for BDS-C version 1.44
                    .CRL
S059.02
           CABORT
S059.03
           CORE1
                          13K
                                CORE image that results from compiling PBASE
                           2 K
                   .DOC
                                Notes on customization of PISTOL
S059.04
           ENVIRON
           PBASE
                          17K
                                PISTOL source code used to educate PISTOL.COM
S059.05
                    . C
                           8 K
                                Second PISTOL module
S059.06
           PISTB
           PISTB
                    .CRL
                           6 K
                                Second PISTOL module
S059.07
                           3 K
                                Third PISTOL module
S059.08
           PISTC
                    .C
                    .CRL
                           2K
                                Third PISTOL module
S059.09
           PISTC
                    .C
                           5K
                                Fourth PISTOL module
S059.10
          PISTD
                           5K
                                Fourth PISTOL module
S059.11
           PISTD
                    .CRL
           PISTE
                   . C
                           3 K
                                Fifth PISTOL module
S059.12
                           2 K
           PISTE
                    .CRL
                                Fifth PISTOL module
S059.13
                           6 K
                                Sixth & final PISTOL module
          PISTF
                   .C
S059.14
                                Sixth & final PISTOL module
          PISTF
                    .CRL
                           4K
S059.15
S059.16
          PISTGEN
                   .SUB
                           1 K
                                SUBMIT file to GENerate this disk
                   .C
                           4K
                                Main PISTOL module
S059.17
          PISTOL
S059.18
          PISTOL
                   .COM
                          18K
                                This & 'CORE1' make new develop language - PISTOL
                           2K
                                PISTOL-Portably Implemented Stack Oriented Lnguge
S059.19
          PISTOL
                   .CRL
S059.20
          PISTOL
                   .DOC
                          39K
                                Documentation of PISTOL
                           4K
                                Constants & externals for PISTOL
S059.21
          PISTOL
                   .Н
S059.22
          PISTOL
                   .PAS
                          41 K
                                PASCAL version of PISTOL - runs on DEC 20
                   .SUB
                           1 K
S059.23
          PISTSUB
                                SUBmit file to compile & link .C modules
                           7 K
S059.24
          READ
                   .ME
                                History and editorial for PISTOL
                           5K
S059.25
           SESSIONO.DOC
                                Example session - shows most basic functions
S059.26
          SESSION1.DOC
                           9 K
                                Constants, var's, new words, & MACROS creation
S060
                           2k
           -CATALOG.060
                                Contents of Sig/M Volume 60
                   .LIB
S060
           SIG/M
                           2K
                                Sig/M program submittal form
S060
           CRCK
                   .COM
                           2 K
                                File CRC geneation and test program
S060
                           2 K
                   .COM
                                Restricted Directory list program
                                File transfer program
S060
           MFT
                   .COM
                           2K
S060.01
           D-24
                   .ASM
                          17K
                                Restricted Directory list program
S060.02
           D-24
                           2 K
                   .COM
                                Restricted Directory list program
S060.03
                                Program to DUPlicate file in USeR areas
           DUPUSR2
                   .ASM
                           8 K
                   .COM
S060.04
           DUPUSR2
                           1 K
                                DUPlicate file in USeR areas
S060.05
           FLIP4
                    .ASM
                           3 K
                                Program to FLIP originate/answer mode
S060.06
           FLIP4
                    . COM
                           1 K
                                FLIP originate/answer mode
S060.07
                          13K
           MLIST50
                   .ASM
                                Multiple file LISTer program
S060.08
           MLIST50 .COM
                           2 K
                                Multiple file LISTer
S060.09
           ENTBBS25.ASC
                           8K
                                Front end logger for RBBS
S060.10
           MINBBS25.ASC
                          18K
                                Message module for RBBS
5060.11
           RBBS22
                    .DOC
                           6K
                                Remote Bulletin Board System
S060.12
           RBBS25
                    .ASC
                          23 K
                                Remote Bulletin Board System
S060.13
           RBSUTL22.ASC
                           9K
                                RBBS utility program
S060.14
                    .DOC
                          12K
           SD-41
                                Super Directory listing program
S060.15
                                Super Directory listing
           SD-42
                    .ASM
                          47 K
           SD-42
S060.16
                    .COM
                           2K
                                Super Directory listing
                   .COM
S060.17
           FLS-11
                           9K
                                Ambiguous file name expander
S060.18
           SQ-15
                   .COM
                          14K
                                File SQueeze program
5060.19
           SQ/USQ15.DOC
                                File SQueeze/UnSQueeze system
                           1 K
```

```
5060.20
           SQUEEZER.DOC
                          23 K
                                File Squeeze/unsqueeze documentation
                          10K
                                File UnSQueeze program
S060.21
           USQ-15
                   .COM
           -CATALOG.061
                                Contents of Sig/M volume 61
S061
S061.01
          ARTICLES.D
                           4K
                                DIMS example file for magazine articles
                           4K
                                DIMS example file for magazine articles
          ARTICLES.DD
S061.02
                           1 K
                                DIMS example of notes file via DOC command
S061.03
          ARTICLES.DOC
                           9 K
                                DIMS file format design program
S061.04
          DCFORM
                   .ASC
                           4K
                                DIMS create a new file format
          DCREATE .ASC
S061.05
                   .ASC
                           3 K
                                DIMS command to display/write notes on data
S061.06
           DDOC
                   .ASC
                         25K
                                DIMS editor
S061.07
           DEDIT
                                Gets sequential file & adds to DIMS file
S061.08
          DGET
                   .ASC
                           3 K
          DHELP
                   .ASC
                          2K
                                DIMS editor HELP displays
S061.09
                   .DOC
                           6 K
                                Screen texts used by HELP
S061.10
          DHELP
                   .ASC
                          10K
                                Dan's Information Management system w/menu
          DIMS
S061.11
                         37K
          DINSTALL.DOC
                                Installation & operation manual for DIMS
S061.12
                          6 K
                                Print 1-up mailing labels for DIMS
          DLABELS .ASC
S061.13
                          6 K
S061.14
          DLETTERS.ASC
                                Print form letters w/file data for DIMS
          DPUT
                   .ASC
                           4K
                                PUTS record set out to required file for DIMS
S061.15
                   .ASC
                         14K
                                SORT command field for DIMS
          DSORT
S061.16
                          7 K
S061.17
          DSTAT
                   .ASC
                                Calculate discriptive statistics for DIMS data
                   .DOC
                          3K -
                                DIMS file documentation
S061.18
          FILES
                          17K
                                Wordstar source to design screen/printer formats
SD61.19
          FORMFORM.DWS
                           1 K
S061.20
          LONGADDR.D
                                Example data file - long form address list
          LONGADDR.DD
                          1 K
                                Example data file - long form address list
S061.21
          READ
                   .ME
                          3 K
                                DIMS release letter
S061.22
S061.23
          SHORT
                   .DFO
                           1 K
                                Screen/printer format control file for SHORT form
                          1 K
S061.24
          SHORT1
                   .DFO
                                Screen/printer format control file for SHORT form
          SHORTADD.D
                          1 K
                                Example data file - short form address list
S061.25
                          1 K
                                Example data file - short form address list
          SHORTADD.DD
S061.26
                          1 K
                                Example data file - standard form address list
S061.27
          STANDADD.D
S061.28
                          1 K
                                Example data file - standard form address list
          STANDADD.DD
S061.29
          STRIP
                   .BAS
                          3 K
                                Utility to make DEDIT smaller
S062
          <see Z10>
S063
          <see Z11>
S064
          <see Z12>
S065
          -CATALOG.065
                                Contents of Sig/M volume 65
                  .COM
S065
          CRCK
                                CRC generation and test program
S065.01
          BYE
                   . DOC
                         12K
                                Updated BYE
S065.02
          BYE78
                   .ASM
                         70K
                                Updated BYE
S065.03
          DIRLST/1.ASM
                          5K
                                ASCII DIRectory LiST for SUBMIT
S065.04
                   .ASM
          ENTAB
                         10K
                                Replace spaces with TABs
S065.05
          FILECOPY.ASM
                          6 K
                                Single drive file COPY
                                Updated MODEM Ver 7.6
S065.06
          MODEM76 .ASM
                         69K
S065.07
          MODEM76 .COM
                         10K
                                Updated MODEM 7
S065.08
          MODEM76 .SET
                          6 K
                                Updated MODEM 7
S065.09
                         13K
          SUBGEN10.DOC
                                .SUB file GENerator documentation
S065.10
          SUBGEN12.ASM
                         19K
                                .SUB file GENerator
S066
          -CATALOG.066
                                Contents of Sig/M volume 66
S066
          CRCK
                   .COM
                                CRC generation and test program
S066.01
                   .ASM
          APBYE
                         36K
                                Apple modem support
S066.02
          APMBOOT .ASM
                          8 K
                                Apple modem support
S066.03
          APMODEM .DOC
                           5K
                                Apple MODEM support documentation
S066.04
          APMODM22.ASM
                         40 K
                                Apple MODEM support
S066.05
          MODEM3
                   .ASM
                         34K
                                MODEM support for PMMI 103
                   .DOC
S066.06
          SD-43
                          2K
                                Super Directory documentation
S066.07
          SD-44
                   .ASM
                         48K
                                Super Directory Ver 4.4
S066.08
          ZCPR-14 .ASM
                         61K
                                Customized CCP update
S067
          -CATALOG.067
                                Contents of Sig/M volume 67 - June 29, 1982
S067
          CRCK
                   .COM
                                CRC generation and test program
```

```
Relocation LOaDer for .PRL files
S067.04
           PRLOD
                    .ASM
                           4K
                                 RESOURCE disassembler Ver 7.3
           REZ7/31
                    .ASM
                          33K
S067.05
                          26 K
                                 RESOURCE disassembler documentation
S067.06
           REZ7/31 .DOC
           SMFORTH1.ASM
                          22K
                                 Minimal FORTH
S067.07
                          83K
                                 Updated MODEM 7 for Smart Modem
S067.08
           SMODEM36.MAC
                          22K
                                 Extended SUBMIT
S067.09
           SUB
                    .ASM
                           9 K
                                 Record disk I/O onto LST:
S067.10
           WHODERE2.ASM
           -CATALOG.068
                                 Contents of Sig/M volume 68 - July 3, 1982
S068
           ABSTRACT.068
                                 Notes on ED/ASM. DYNATRCE and TURNKEY
S068
                    .COM
                                 CRC generation and test program
S068
           CRCK
           DIF2
                    .OBJ
                          15K
                                 DIFferential file print
S068.01
                           4K
                                 DIFferential file print
S068.02
           DIF2
                    .RNO
                    .OBJ
                          11K
                                 Differential file print routine
S068.03
           SSED2
                          54K
                                 8080 emulator/TRACE program
           DYNATRCE.ASM
S068.04
                           5K
                                 EDitor/ASseMbler program Ver 2.7
           ED/ASM
                    .COM
S068.05
                    .DOC
           ED/ASM
                           8K
                                 EDitor/ASseMbler documentation
S068.06
                           7 K
                                 ISIS II to CP/M conversion
           ICOPY1
                    .ASM
S068.07
           MFT46A
                    .ASM
                          18K
                                 Single drive multiple-file transfer
S068.08
                    .ASM
                          24K
                                 Remote file communication
S068.09
           PLINK65
                                 Remote file communication
                    .DOC
                           5 K
           PLINK65
S068.10
                           6 K
S068.11
           TSAVE4
                    .ASM
                                 Tarbell SAVE program
                                 Turnkey sys for independent warm/cold BOOT cmds
           TURNKEY .PAT
                           3 K
S068.12
                                 Turnkey sys for independent warm/cold BOOT cmds
S068.13
           TURNKEY .PGM
                           9 K
                           5 K
                                 Turnkey sys for independent warm/cold BOOT cmds
S068.14
           TURNKEY .PUN
           UNSPOL33.ASM
                          21 K
                                 Updated "DESPOOL" look-alike
S068.15
                                 Updated "DESPOOL" look-alike
                          13K
           UNSPOOL .DOC
S068.16
                          14K
                                 Bulletin board support
           USERID1 .ASM
S068.17
                           3 K
                                 DOC on RESOURCE disassembler Ver 2.0
S068.18
           ZESOURCE.DOC
                           7 K
                                 RESOURCE disassembler Ver 2.0
S068.19
           ZESOURCE.OBJ
S069
           <see Z13>
                                 Contents of Sig/M volume 70 - July 12, 1982
S070
           -CATALOG.070
                                 CRC generation and test program
S070
                    .COM
           CRCK
                           3 K
                                 NorthStar BASIC programs
S070.01
           A-NEW
                    .NBP
S070.02
           BOMBER
                    . NBP
                           3 K
                                 NorthStar BASIC game
                                 NorthStar BASIC game
S070.03
           BOXING
                    .NBP
                           3 K
                                 NorthStar BASIC game
S070.04
           DECISION.NBP
                           5K
S070.05
           DEPTHCHG.NBP
                           2 K
                                 NorthStar BASIC game
                    .NBP
                                 NorthStar BASIC game
S070.06
           DRUNK
                           4K
                           7 K
                                 NorthStar BASIC game
S070.07
           ELIZA
                    .NBP
S070.08
           ENTERPRI.NBP
                           7 K
                                 NorthStar BASIC game
S070.09
           GROWTH
                    .NBP
                           4K
                                 NorthStar BASIC program
                                 NorthStar BASIC program
S070.10
                    .NBP
                           1 K
           HDSUB
                                 NorthStar BASIC program
S070.11
                           2 K
           HEXDEC
                    .NBP
S070.12
                    .NBP
                           1 K
                                 NorthStar BASIC program
           INDEX
5070.13
           INTEREST.NBP
                           2 K
                                 NorthStar BASIC program
S070.14
           LOANPAY1.NBP
                           3 K
                                 NorthStar BASIC program
S070.15
           MICKEY
                    . NBP
                           4K
                                 NorthStar BASIC program
S070.16
           NAVAID1
                   .NBP
                           2 K
                                 NorthStar BASIC program
S070.17
                    .HLP
                           2 K
                                 NorthStar BASIC read me-for-help file
           NBP
S070.18
           PEANUTS .NBP
                           4K
                                 NorthStar BASIC program
S070.19
                           1 K
                                 NorthStar BASIC program
           PLOT
                    .NBP
5070.20
                           1 K
                                 NorthStar BASIC program
           PRIME
                    .NBP
                    .NBP
                                 NorthStar BASIC game
S070.21
           QUBIC
                           7 K
                                 NorthStar BASIC program
5070.22
           RECURSIV.NBP
                          10K
S070.23
           STARLANE.NBP
                          13K
                                 NorthStar BASIC
                                                  game
                                 NorthStar BASIC game
S070.24
           STARTRE$.NBP
                          12K
S070.25
                    . NBP
                           2 K
                                 NorthStar BASIC program
           STORY
                                 NorthStar BASIC program
S070.26
                    .NBP
                           2 K
           TIME
           TIMEPRNT.NBP
                                 NorthStar BASIC program
5070.27
                           1 K
                           8 K
                                 NorthStar BASIC game
9070 28
           UFO
                 . NBP
```

FIND diskette BaD spots

Change BAUD rate w/o redialing

8085 MACRO Library

32K

2 K

4K

FINDBD54.ASM

NEWBAUD2.ASM

.LIB

I8085

S067.01

S067.02

S067.03

```
S070.29
             FORTH110.ASM
                            62K
                                   Fig FORTH rev 1.1 for CP/M
             XREF141 .ASM
  S070.30
                            43 K
                                   Cross REFerence for .ASM/.PRN
             <see Z14>
  S071
             <see Z15>
  S072
             -CATALOG.073
                                   Contents of Sig/M volume 73 - September 26, 1982
  S073
                                   Pass CP/M command line to BASCOM
                             4K
  S073.01
             CMD
                      . ASM
                                   Test program for CMD.ASM
                             1 K
             COMMAND
  S073.02
                      . BAS
             COMP-12 .ASM
                             7 K
                                   Binary file COMParison used with DD6
  S073.03
                             3 K
                                   Binary file COMParison used with DD6
  S073.04
             COMP-12 .DOC
                                   Diablo 1610/20 BIOS driver using ETX/ACK
                             2K
  S073.05
             DAISYDRV.ASM
                                   Enhanced DDUMP Ver 2.15
  S073.06
             DD6
                      .ASM
                            27 K
             DD6
                      .DOC
                            13K
                                   Documentation for enhanced DDUMP
  S073.07
                                   Bidirectional driver for DIABLO 1620
             DIABLO
                      .ASM
                             6 K
  S073.08
                                   Print disk LABELs
                             4K
             DLABEL
                      .BAS
  S073.09
                                   COPY ISIS to CP/M, Ver 2.2 - includes 2D
                            10K
             ICOPY
                      .ASM
  S073.10
                             4K
                                   Ithaca extensions for DJ2D BIOS, 512 byte DPB
             ITHICA1
                      .ASM
  S073.11
                                   Ithaca extensions Ver 1.2
             ITHICA2
                      .ASM
                             4K
  S073.12
                      .LIB
                            20 K
                                   Bill Bolton MACRO library
             MACRO3
  S073.13
             MAP
                      .ASM
                             4K
                                   MAP disk space on Microsoft programs Ver 1.2
  S073.14
                             1 K
  S073.15
             MAPTEST
                      .BAS
                                   TEST program for MAP
                            21K
                                   Exhaustive MEMory Test
             MEMRS
                      .ASM
  S073.16
  S073.17
             MEMRS
                     .DOC
                            7 K
                                  MEMory Test documentation
             PAGE-10
                             6 K
                                   File screen PAGEing utility Ver 1.1
  S073.18
                      .ASM
                      .ASM
  S073.19
             PAGE-11
                             7 K
                                   Screen PAGEer - bouncy keyboard version 1.2
                            15K
                                   SD systems PROM-100 board driver 2708
  S073.20
             PROMOSU ASM
             PROM16U .ASM
                            14K
                                   SD systems PROM-100 board driver 2716-2758
  S073.21
                            17K
  S073.22
             PUT
                      .ASM
                                   User area transfer utility
                                   VDB-8024 video board firmware - simulates ADM/TVI
                      .ASM
                             8K
  S073.23
             VDB1-71
                                   Memory-mapped video driver for ADM31
                            10K
  5073.24
             VDM-112 .ASM
                             7 K
                                   Wide ISIS II to CP/M DIRectory utility
                      .ASM
  S073.25
             WIDIR
  S073.26
             WMPAT
                      .ASM
                             3 K
                                   Wordmaster 1.06 patch for VDM-1
                                   Contents of Sig/M volume 74 - September 26, 1982
  S074
            -CATALOG.074
                      .C
  S074.01
             BACKUP
                            11K
                                   Disk copy program
                     . ASM
                             6 K
  S074.02
             BCKUP
                                   Disk copy program
  S074.03
             CLOCK
                      .C
                             6 K
                                   Read Godbout SS1 CLOCK
  S074.04
             CLOCK
                             1 K
                                   Header for CLOCK.C
                      . H
                                   CB-80 Godbout SS1 CLOCK
  S074.05
             CLOCK-CB.BAS
                             8 K
$ $074.06
                             7 K
                                   MBASIC Godbout CLOCK
             CLOCK-M .BAS
                                   Binary file COMPARE
  S074.07
             COMPARE .ASM
                             8K
                      .ASM
                                   Disk COPY program
  S074.08
             COPY
                             8 K
                                   Fast COPY - Morrow DJ2D
                      .ASM
                            19K
  S074.09
             COPY21
  S074.10
             CPACK
                      .DOC
                            12K
                                   Documentation for CP/M utility programs
  S074.11
             DATEDEMO.C
                             8 K
                                   DEMO file - CLOCK.C
  S074.12
             DDTTOMAC.C
                             7 K
                                   Converts DDT disassembly to .ASM
  S074.13
             DDTTOMAC.DOC
                             2 K
                                   Converts DDT disassembly to .ASM
                                   Converts DDT disassembly to .ASM
  SD74.14
             DDTTOMAC.OBJ
                            10K
  S074.15
             DIARY
                             8 K
                      .BAS
                                   CBASIC diary program
  S074.16
             Dos
                      .ASM
                             2K
                                   System size and address locator
                                   Rename or erase illegal filenames in DIRectory
  S074.17
             FIXDIR
                      .C
                             6 K
  S074.18
                             4K
                                   Documentation for FIXDIR
             FIXDIR
                      .DOC
                                   Frequency PRODucts for RF engineers
  S074.19
             FPROD
                             8K
                      . BAS
  S074.20
             FPROD1
                      . BAS
                             8 K
                                   Frequency PRODucts for RF engineers
                            10K
                                   2651 USART interface for HITE
  S074.21
             H2651
                      .ASM
  S074.22
                                   Programs KEYpad on ADM-31, allows strings
             KEY
                      .C
                             3 K
                                   Programs KEYpad on ADM-31, allows strings
  S074.23
             KEYPAD
                      .BAS
                             1 K
  S074.24
             MARGIN
                      .C
                             3 K
                                   Diablo type MARGIN set
  S074.25
                      . C
             MGAME
                             3 K
                                   Number guessing game
  S074.26
             PCPATCH
                                   PIP - continue patch
                      .ASM
                             2K
  S074.27
             PCPATCH .DOC
                             1 K
                                   PIP - continue patch
                                   Example for DDTTOMAC.C
  S074.28
                             5K
             REST
                      . DDT
1, 5074.29
                                   RESTOREs erased files
             RESTORE ASM
                             5K
                                   SORT DIRector program for CP/M 1.4
  S074.30
             SORTDIR
                     .ASM
                             6 K
```

```
.C
                              2 K
                                   STRIPs MSB off files
   5074.31
             STRIP
                              6 K
                                   USART interface for Godbout Interfacer 3/4
                      .ASM
  S074.32
             U2651
                              4K
             U8250
                      .ASM
                                   BSTAM interface for 8250 on CCS Z80 CPU
  S074.33
   S074.34
             UCASE
                       .BAS
                              1 K
                                   MBASIC Upper CASE conversion
             UCCS7710.ASM
                              2K
                                   Apple interface to CCS 7710A card in CP/M sys
   S074.35
   S074.36
             UGODBOUT.ASM
                              ЗК
                                   Godbout interfacer 1/2 serial I/O routines
                              2 K
             USERSHOW.ASM
                                   USER number display prompt patch
   S074.37
                              9 K
             VERIFY
                                   VERIFies disk files
  S074.38
                      .C
                              2K
                                   Removes XSUB during SUB w/o cold boot
   S074.39
             XOUT22
                       .ASM
                                   Contents of Sig/M volume 75 - September 26, 1982
             -CATALOG.075
   S075
                              5K
                                   GRAPHics routines for ETI-640
   S075.01
             640GRAPH.ASM
                              1 K
                                   GRAPHics routines for ETI-640
             64DGRAPH.HLP
   S075.02
                              1 K
                                   Cold BOOT for Apple CP/M, see TURNKEY.DOC
   S075.03
             BOOT
                      .OBJ
             FFT
                      .BAS
                              4K
                                   Fourier transform
  S075.04
                              7 K
                                   FM file DIR map catalog utility
   S075.05
             \mathsf{FM}
                      .ASM
                      .ASM
                              2K
                                   BDS C library part O
   S075.06
             G80
                      .ASM
                              9 K
   S075.07
             G81
                                   BDS C library part 1
                              4K
                                   BDS C library part 2
   S075.08
             G82
                      .ASM
                      .CSM
                                   G8?.ASM and G20.ASM files redone for CASM
  S075.09
             G8M
                              9 K
                      . H
                              1 K
                                   Header file for G8?.C files
  S075.10
             G8X
  S075.11
             GCO
                      .C
                             10K
                                   Inverse video char set for Exidy Sorcerer
                              7 K
                                   Video routines for Exidy Sorcerer
             GZ 0
  S075.12
                      .ASM
                      .LIB
  S075.13
             GZ 80
                              2 K
                                   MACROs used in G??.ASM
7, S075.14
             ID
                      .FRT
                             13K
                                   ID kingdom game - FORTRAN
  S075.15
             IDENTIFY.ASM
                              2 K
                                   Identify CPU you are using
  S075.16
             INVADERS.Z80
                             32K
                                   Space Invaders for ETI-640
             MACTIME .ASM
                              6 K
                                   TIME from Godbout SS1
  S075.17
  S075.18
             OZNAKI1
                      .ASM
                              6 K
                                   Life game for VDM-1/ETI
                              1 K
                                   Use with FFT.BAS
  S075.19
             PULSE12 .BAS
                                   Use with FFT.BAS
  S075.20
             PULSE25 .BAS
                              1 K
  S075.21
             ROMAN80
                      .ASM
                              5K
                                   Convert Arabic to ROMAN numerals
  S075,22
             SEARCH
                      .BAS
                              3 K
                                   Magazine library SEARCH
  S075.23
                      .ASM
                              3 K
             SHELLM
                                   SHELL/Metzner sort routine
  S075.24
             SINE1010, BAS
                              1 K
                                   Use with FFT.BAS
  S075.25
                              5K
             STATTIME.ASM
                                   TIME patch for STAT
  S075.26
             TURNKEY .DOC
                              2K
                                   Documentation for Turnkey - BOOT
                                   Create auto load Apple CP/M diskette
  S075.27
             TURNKEY .OBJ
                             - 1 K
  S075.28
                      .ASM
                             57 K
                                   AMS80 monitor Ver 3.1 (JADE I/O boards)
             UPG80
  S075.29
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                      .C
                              9 K
                                   Random FILE access routines
  S076
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             CRC
                                   CRC generation program
                      .ED
  S076.01
             SETUP
                              3 K
                                   EDitor enhancement commands
  S076.02
                              9 K
             ED
                      .PRN
                                   Portable screen EDitor print procedure
  S076.03
             ED
                      .DOC
                              4K
                                   Documentation on portable screen EDitor
  S076.04
             ED0
                      . C
                              1 K
                                   C - language source file for EDitor
  S076.05
             ED1
                      .ccc
                              1 K
                                   C - language source file for EDitor
  S076.06
             ED2
                      .C
                              9 K
                                   C - language source file for EDitor
  S076.07
             ED3
                      .C
                             16K
                                   C - language source file for EDitor
  S076.08
             ED4
                      .C
                              8 K
                                   C - language source file for EDitor
  S076.09
             ED5
                      .C
                              2K
                                   C - language source file for EDitor
  S076.10
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                      .C
                              1 K
                                   C - language source file for EDitor
  S076.11
             ED7
                      .C
                              3 K
                                   C - language source file for EDitor
  S076.12
                      .C
             ED8
                              5K
                                   C - language source file for EDitor
  S076.13
             ED9
                      .C
                              3 K
                                   C - language source file for EDitor
  S076.14
             ED10
                      . C
                              6 K
                                   C - language source file for EDitor
  S076.15
                      . C
             ED
                              1 K
                                   C - language source master include file
  S076.16
                      . MAC
             MBUFFER
                                   M80 buffer
                              1 K
  S076.17
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                             25K
                                   Compiled H19 EDitor
  S076.18
             ED
                      .SUB
                              2K
                                   C SUBMIT file
  S076.19
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                              1 K
                                   SUBMIT file for L80 linking
  S076.20
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                      .ASM
                             21K
                                   Updated FAST - to speed up operation of CP/M 2.2
  S076.21
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                              3 K
                      .OBJ
                                   Updated FAST - to speed up operation of CP/M 2.2
  S076.22
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                             21K
                                   FAST manual
  S076.23
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                             15K
                                   Pac . . . . .
                                                and move routines for FAST
```

```
.UTL
                             2K
                                   FAST utility
  S076.24
             REL
                      .SUB
                             1 K
                                   FAST utility
  S076.25
             RELED
                             1 K
  S076.26
             RELFAST
                      .SUB
                                   FAST utility
                             1 K
                                   FAST utility
             SIDFAST
                     .SUB
  S076.27
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  S076.28
             UTL
                             3 K
                                   UTL file linkage MACRO
                      .ASM
                             3 K
                                   Keyboard definition
             KID
  S076.29
             KID/KIP .DOC
                             2K
                                   Documentation for simulated function keys
  S076.30
                             3 K
             KIP
                      .ASM
                                   Keyboard input patch
  $076.31
                      .BAS
                             3 K
                                   MBASIC DIR sort
             SDIR
  S076.32
                            14K
                                   System memory map - BDOS, BIOS, ROM, ports, etc.
  S076.33
             SURVEY4
                      .ASM
                      .COM
                             2K
                                   System memory map - BDOS, BIOS, ROM, ports, etc.
             SURVEY4
  S076.34
                                   Recover erased files - with wildcards
             UNERA
                      .ASM
                            11K
  S076.35
                             1 K
                                   Recover erased files - with wildcards
                      .COM
  S076.36
             UNERA
                             4K
             WCT3
                      . C
                                   File word count showing columns of print Ver 1.0
  S076.37
                             6 K
                      .COM
                                   File word count showing cols of print
  S076.38
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  S077
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  S077
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                                   CRC generation program
                                   Replacement CCP version 1.0 squeezed
                            34K
  S077.01
             ZCPR
                      . AQM
                      .ASM
             ZCPR
                            51 K
                                   Replacement CCP version 1.0
  S077.02
             ZCPR-16 .ASM
                            66K
                                   Replacement CCP version 1.6
  S077.03
             NZCPR-16.DIF
                            24K
                                   Differences between Ver 1.6 and Ver 1.0
  S077.04
                             2 K
                                   Documentation for ZCPR version 1.6
  S077.05
             NZCPR-16.DOC
             NZCPR-16.DQF
                            17K
                                   Difference file 1.6/1.0 squeezed
  S077.06
  S078
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                                   Contents of Sig/M volume 78 - October 27, 1982
  S078
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                                   CRC generation program
  S078.01
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                             2K
                                   Benchmark test in BASIC
                             4K
                                   Benchmark test in C
  S078.02
             BENCHMK .C
  S078.03
             BENCHMK .FOR
                             5K
                                   Benchmark test in FORTRAN
  S078.04
             BENCHMK .PAS
                             3 K
                                   Benchmark test in PASCAL
  S078.05
             BENCHMK .DOC
                             6 K
                                   Documentation on benchmark test
             BIGTIME .BAS
                            15K
                                   Adds video controls
  S078.06
  S078.07
             CALENDAR . BAS
                             2 K
                                   Calendar generator
                             2K
  S078.08
             DECR
                      . C
                                   Strips CRLFs from a file
                                   LISTs C source files w/include files
  S078.09
                             3 K
             CLIST
                      .C
  S078.10
             CLIST
                      .OBJ
                             8 K
                                   LISTs C source files w/include files
  S078.11
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                             1 K
                                   Compare 2 buffers (alphas to LC for compare)
  S078.12
             CPYBUF.
                             1 K
                                   COPY buffer 's' to 'd' for 'n' bytes
                      .C
                      .C
  S078.13
                             1 K
                                   Replace TABs with blank spaces
             DETAB
                      . C
                             1 K
  S078.14
             DIAGN
                                   DIAGNostic output error messages
  S078.15
                             1 K
             FILENM
                      .C
                                   Extract FILE NaMe from a line
                      .C
  S078.16
             INCL
                             1 K
                                   Include file
  S078.17
             INSTR
                      .C
                             1 K
                                   Find first substring occurance in string
  S078.18
             PAGIN8
                      , C
                             2K
                                   Output 'n' blank lines
  S078.19
                             1 K
                                   Disk parameter blocks for 4 drives
             DISKDEF
                      . ASM
  S078.20
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                             1 K
                                   DISKDEF MACROS
  S078.21
                      .BAS
                             1 K
                                   MBASIC prime number benchmark
             FPRIME
  S078.22
             FPRIME
                      .C
                             1 K
                                   C prime number benchmark
  S078.23
             INTERRUP.ASM
                             8K
                                   INTERRUPt handler for SS1
  S078.24
                      . C
                            25K
                                   Enhanced L2 BDS C linker
             LSNEM
  S078.25
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                             1 K
                                   Documentation for MOVECOM
  S078.26
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                                   Spellbinder command - MOVEs ASM file comments
9 S078.27
                             6 K
                                   MBASIC cross REF utility
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  S078.28
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                            14K
                                   Memory resident SUB type program
  S078.29
             SHELSORT.MAC
                             5K
                                   SHELL SORT add-on code
  S078.30
             SURVIVAL.BAS
                            16 K
                                   CBASIC2 SURVIVAL game
  S078.31
                            19K
             SURVIVAL.OBJ
                                   CBASIC2 game
  S078.32
             TALK1-5 .ASM
                            23 K
                                   Interrupt driven MODEM program for Zilog SIO
  S078.33
                             2K
                                   Documentation on SIO interrupt driven MODEM
             TALK1-5 .DOC
  S078.34
             TALK1-5 .OBJ
                             2K
                                   Interrupt driven MODEM program for Zilog SIO
  S078.35
                                   Displays TIME on console using Godbout SS1
                      .ASM
             TIME
                             2k
  S078.36
             TIME
                      .OBJ
                             1k
                                   Displays TIME on console using Godbout SS1
  S079
             -CATALOG.079
                                   Contents of Sig/M volume 79 - October 27, 1982
  S079
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                                   Comments from PL/I-80 UG volume 2
```

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S079
                    .079
                                 Documentation on this volume
           DOC
                           2K
                                 ACCESS display overlays
           ACCESS
                    .OVL
S079.01
                           2 K
S079.02
           ACCESS
                    .PLI
                                 Record access and update primitives
S079.03
           ATTRIB
                    . DCL
                           1 K
                                 Field ATTRIButes and record structure
                    .SUB
                           1 K
                                 Compile SUB file
           COMP
S079.04
                           2 K
                                 Database creation display overlays
S079.05
           CREATE
                    .OVL
           CREATE
                    .PLI
                           2 K
                                 Database creation file
S079.06
                           1 K
                                 Database file
S079.07
           DATA
                    . DAT
                    . DAT
                           1 K
                                 Database DEFinition file
S079.08
           DEF
                                 Primitives used for I/O by other modules
                           2 K
                    .PLI
S079.09
           IO
                           1 K
                                 Database access keys - same order as records
S079.10
           KEY
                    . DAT
                                 Declaration include file - linked list of keys
                           1 K
S079.11
           KEY
                    .DCL
                    .SUB
                           1 K
                                 Links overlay system
S079.12
           LINK1
           LINK2
                    .SUB
                           1 K
                                 Links database system as one .COM file
S079.13
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                          13K
                                 Overlay system root module
           MENU
SD79.14
                           3 K
                                 Overlay system root module source w/function MENU
                    .PLI
S079.15
           MENU
                           2K
                                 REPORT generation overlay
           REPORT
                    .OVL
S079.16
                    .PLI
                           1 K
                                 Database REPORT generation source
S079.17
           REPORT
                    . OVL
                           5K
                                 Point-of-sale overlay
S079.18
           SALE
                                 Creates invoice on disk & updates database
                           4K
           SALE
                    .PLI
S079.19
           SETDEF
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                           3 K
                                 SETDEF display overlays
S079.20
                           2 K
                                 Reads/validates DEF.DAT checks for price and qty
           SETDEF
                    .PLI
S079.21
                    .OVL
                                 SETKEY display overlays
           SETKEY
                           2K
S079.22
                                 Reads KEY.DAT file & builds linked key list
                    .PLI
                           1 K
S079.23
           SETKEY
                           1 K
           UPDATE
                    .OVL
                                 UPDATE display overlays
S079.24
                                 Performs database updates
                           2 K
S079.25
           UPDATE
                    .PLI
                           9 K
                                 File COPY utility with query for verification
S079.26
           COPY
                    .PLI
           COPY
                    .SUB
                           1 K
                                 SUB file to generate COPY.COM
S079.27
                           5K
                                 File ERASE utility with query for verification
                    .PLI
S079.28
           ERAQ
                           1 K
           ERAQ
                    .SUB
                                 SUB file to generate ERAQ.COM
S079.29
                    .PLI
                          12K
                                 FCBs used by programs on a drive
           FCBS
S079.30
                    .SUB
                           1 K
                                 SUB file to generate FCBS.COM
S079.31
           FCBS
                           1 K
S079.32
           FCB
                    .DCL
                                 FCB declaration include
                    .DCL
S079.33
           DIOMOD
                           2 K
                                 Include file for PLIDIO.ASM
                    .ASM
                          21K
                                 PL/I-80 interface for direct BIOS calls
S079.34
           PLIDIO
                                 Declares entry points for PLIBIOS.ASM
                           1 K
S079.35
           PLIBIOS .DCL
                                 PL/I-80 interface for direct read and write calls
S079.36
           PLIBIOS .ASM
                           6 K
                                 First half of test program for MPMDIO.ASM
S079.37
           MPMCALLS.PLI
                          13K
           MPMCALLS.SUB
                           1 K
                                 SUB file to generate MPMCALLS.COM
S079.38
S079.39
           MPMCALLC.PLI
                           8 K
                                 Second half of test program for MPMDIO.ASM
                    . DCL
                                 Declares entry points for MPMDIO.ASM
S079.40
                           2 K
           MPMDIO
S079.41
           MPMDIO
                    .ASM
                           5K
                                 PL/I-80 interface for direct MP/M calls
                                 Relocates to TPA top, loads & executes .COM file
                    .ASM
                           3 K
S079.42
           CHAIN
                                 SUB file to generate CH1.COM and CH2.COM
S079.43
                           1 K
           CHAIN
                    .SUB
                                 Tests CHAIN.ASM routine, may invoke FPARSE.PLI
S079.44
           CH1
                    .PLI
                           2k
                                 Test program - CHAINS to CH1.COM
S079.45
           CH<sub>2</sub>
                    .PLI
                           1 K
S079.46
           PARSE
                    .PLI
                           4K
                                 PARSEs ambiguous (*,?) filename into CP/M FCB
                           4K
                                 PARSEs unambiguous filename into CP/M FCB
S079.47
           FPARSE
                    .PLI
S079.48
                    .PLI
                           2 K
                                 Tests PARSE & FPARSE routines
           PTEST
                    .SUB
                                 SUB file to generate PTEST.COM
S079.49
           PTEST
                           1 K
                                 Hex memory DUMP - displays 16 byte address w/dump
S079.50
                    .PLI
                           2 K
           ADUMP
S079.51
           ODUMP
                    .PLI
                           2 K
                                 Hex memory DUMP - displays offset from base ptr
                                 Hex memory DUMP - displays address & offset
S079.52
                    .PLI
                           2 K
           AODUMP
                           1 K
                                 Hex memory DUMP TEST routine
S079.53
           DUMPTEST.PLI
                                 SUB file to generate DUMPTEST.COM
                           1 K
S079.54
           DUMPTEST.SUB
                    .PLI
                                 Converts 2 HEX digits into binary fixed value
S079.55
           HEXBIN
                           1 K
                                 TESTs HEXBIN for HEX string to fixed conversion
                           1 K
S079.56
           HEXTEST
                   .PLI
S079.57
                           1 K
                                 SUB file to generate HEXTEST.COM
           HEXTEST .SUB
S080
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S081
           <see Z17>
S082
           <see Z18>
```

S083

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                                 CRC generation program
S083.01
                    .DOC
                           5K
                                 In Context Editor - uses window for ADM-31
           ICE
                                 In Context Editor - uses window for ADM-31
                    .PLI
                          30K
S083.02
           ICE
           ICE
                          20 K
                                 In Context Editor - uses window for ADM-31
S083.03
                    .REL
                           1 K
                                 In Context Editor - uses window for ADM-31
S083.04
           ICE
                    .SUB
                          13K
                                 In Context Editor - uses window for ADM-31
           ICE-EDIT.PLI
S083.05
           ICE-END .PLI
                           1 K
                                 In Context Editor - uses window for ADM-31
S083.06
                          11K
                                 In Context Editor - uses window for ADM-31
           ICE-GP
                    .PLI
S083.07
                                 In Context Editor - uses window for ADM-31
                           4K
S083.08
           ICE-MAIN.PLI
                           1 K
                                 In Context Editor - uses window for ADM-31
           ICE-MAKE.SUB
S083.09
                                 In Context Editor - uses window for ADM-31
S083.10
           ICE-VDU .PLI
                           2 K
                           2 K
                                 TouchTyping Tutor in MBASIC for ADM-31
S083.11
           TTHELPO
                    .DAT
                    .DAT
           TTHELP1
                           2K
                                 TouchTyping Tutor in MBASIC for ADM-31
SD83.12
                           1 K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
           TTHELP2
                   .DAT
S083.13
                   .DAT
                           1 K
                                 TouchTyping Tutor in MBASIC for ADM-31
S083.14
           TTHELP3
                    .DAT
                           1 K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
           TTHELP4
S083.15
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                                                               for ADM-31
           TTHELP5
                           1 K
                                 TouchTyping Tutor in MBASIC
S083.16
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                           1 K
                                 TouchTyping Tutor in MBASIC for ADM-31
S083.17
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S083.18
           TTYPE
                    .BAS
                          22K
                                 TouchTyping Tutor in MBASIC
                                                               for ADM-31
S083.19
           TTYPE
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                          22K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
S083.20
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                          19K
                                 TouchTyping Tutor in MBASIC
                                                               for ADM-31
           TTYPE
                    .WST
                          20K
                                 TouchTyping Tutor in MBASIC
                                                               for ADM-31
S083.21
                           1 K
                                                        MBASIC
                                 TouchTyping Tutor in
                                                                for ADM-31
S083.22
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                                 TouchTyping Tutor in MBASIC
                                                               for ADM-31
S083.23
S083.24
           TTYPEXC
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                           3 K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
                   .DAT
                           2 K
                                 TouchTyping Tutor in MBASIC
S083.25
           TTYPEXD
                                                                for ADM-31
           TTYPEXE
                   .DAT
                           2 K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
SD83.26
                   . DAT
                           2 K
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
S083.27
           TTYPEXF
S083.28
           TTYPEXG
                   .DAT
                           2 K
                                 TouchTyping Tutor in MBASIC for ADM-31
           TTYPEXH
                           3 K
S083.29
                   .DAT
                                 TouchTyping Tutor in MBASIC
                                                                for ADM-31
                           3 K
S083.30
           TTYPEXI
                   .DAT
                                 TouchTyping Tutor in MBASIC for ADM-31
S083.31
           TTYPEXJ .DAT
                           3 K
                                 TouchTyping Tutor in MBASIC for ADM-31
S084
           -CATALOG.084
                                 Contents of SIG/M volume 84 November 3, 1982
                    .COM
S084
           CRC
                                 Checksum program
S084
           SIG/M
                    .LIB
                                 Submission form
           BYE72G
S084.01
                    .ASM
                          48K
                                 updated communications
S084.02
           BYE72G
                    .COM
                           3 K
                                 programs with options
S084.03
           CHAT19
                    .ASM
                           8K
                                 for international
S084.04
           CHAT19
                    .COM
                           1 K
                                 operations.
                   .BAS
S084.05
           ENTRBBS
                          24K
S084.06
           EXITRBBS.BAS
                           7 K
S084.07
           FLIP4
                    .ASM
                           4K
S084.08
           FLIP4
                    .COM
                           1 K
S084.09
           MBOOT3-A.ASM
                           7 K
S084.10
           MBOOT3-A.COM
                           1 K
S084.11
           MINIRBBS.BAS
                          30 K
S084.12
           RBBSUTIL.BAS
                          13K
S084.13
                    .ASM
           XSTAM+
                          28K
S084.14
           XSTAM+
                    . COM
                          10K
S084.15
           FIND+
                    .ASM
                          13K
                                 Updated FIND
S084.16
           FIND+
                    .COM
                           1 K
5084.17
           HELP14
                    .ASM
                          15K
                                 Updated HELP
S084.18
           HELP14
                    .COM
                           2K
                    .ASM
S084.19
           TAG3
                           8K
                                 updated TAG
S084.20
           TAG3
                    .COM
                           1 K
S085
           <see Z19>
S086
           -CATALOG.086
                                 Contents of SIG/M volume 86 November 15, 1982
S086.01
                    .COM
                           3 K
                                 FAST2 program to speed
S086.02
           FAST2MAN.DOC
                          21 K
                                 CP/M 2.2 programs
S086.03
           Dos
                    .COM
                           1 K
                                 State of system
S086.04
                    .COM
           DU
                           6 K
                                 Superzap, etc. for CP/M
           DU-V77
S086.05
                    .DOC
                           7 K
```

S086.06

FIND

.COM

1 K

Locate ASCII string

```
Finds bad 5" & 8" disks
                    .COM
S086.07
           FINDBAD
                            2 K
                    .COM
S086.08
           FMAP
                            1 K
                                 Location of files
                                 Fast copy 8" disks
                            2K
           LCOPY
                    .COM
S086.09
                                 Fast copy 5" disks
                    .COM
                            2K
           MCOPY
S086.10
                            2 K
                                 Memory test
                    .COM
S086.11
           MEMRS
                    .COM
                            2 K
                                 Multiple file trans - 1 drive
S086.12
           MFT
                            8 K
                                 Modem 7 for RS RS232 or
                    .COM
S086.13
           MODEM
                    .DOC
           MODEM7
                           16K
S086.14
                                 Lynx modem
                            2K
                                 Super Directory
                    .COM
S086.15
           SD
S086.16
           SIZE
                    .COM
                            1 K
                                 File size
                    .COM
                            2 K
                                 Alphabetizes directory
S086,17
           SORTDIR
                    .COM
                            1 K
                                 Sets Holmes Sprinter
           SPEED
S086.18
                          14K
S086.19
                    . COM
                                 Squeeze and unsqueeze
           SQ
                    .COM
                           10K
                                 files
           USQ
S086.20
                           45K
                                 Significantly improves
                   .DOC
           ZCPR-10
S086.23
                                 CP/M 2.2. A "must" program
                           48K
           ZCPR-OM
                    .ASM
S086.24
                            6 K
                    .HEX
                                 for any system.
S086.25
           ZCPR-OM
                            2K
                                 Status of system
S086.26
           SURVEY
                    .COM
                            1 K
                                 Time/date - Alpha timedate
           TIME
                    .COM
S086.27
                                 Use TRS-80 as typewriter
                    .COM
                            1 K
           TYPER
S086.28
                            1 K
           UNERA
                    .COM
                                 Wildcard unerase
S086.29
                    .COM
                            3 K
                                 Handy disk utility
S086.30
           WASH
                    . COM
                            7 K
                                 Counts words in file
           WC
S086.31
                            9 K
S086.32
           XTYPE
                    .COM
                                 Types squeezed files too
                                 Contents of SIG/M volume 87 - November 18, 1982
S087
           -CATALOG.087
                            3 K
                                 CBASIC version of model
           THEFED
                    .TXT
S087.01
           THEFED
                    .INT
                          19K
                                 used by St. Louis Federal
S087.02
                                 Reserve District to test
                            5K
S087.03
           ECON1
                    .DAT
           FORCAST2.DAT
                            1 K
                                 alternate money supply
S087.04
S087.05
           PRNTECON.INT
                            3 K
                                 policies.
S087.06
           PRNTFORC.INT
                            2 K
                    .AQL
                          33K
                                 BDSC catalog
S087.07
           BDSCAT
           DISPLAY+ .ASM
                          16K
                                 types file without wildcards
S087.08
           DISPLAY+.COM
                            3 K
S087.09
S087.10
           TYP+
                    .ASM
                          13K
                                 types file with wildcards
                    .COM
                            3 K
S087.11
           TYP+
S087.12 °
           HELP
                    .HLP
                            7 K
                                  miscellaneous help programs
S087.13
           MESSAGES.HLP
                           6 K
                                  for bulletin boards
                    .HLP
S087.14
           MODEM
                          18K
                    .HLP
                           1 K
S087.15
           QUICK
                          19K
S087.16
           RATFOR
                    .HLP
           SOFTWARE.HLP
S087.17
                          11K
S087.18
           THIS-SYS.HLP
                          22K
S087.19
           NEWCOM
                            2 K
                                 SYSLIB volume 1 of 3 - December 18, 1982
S088
           -CATALOG.088
S088.01
           SYSLIBI .WS
                          10K
                                 Introduction to SYSLIB
S088.02
           SYSLIBUG.WS
                         124K
                                 SYSLIB User's Guide
S088.03
                         103K
                                 SYSLIB Reference Manual (part I)
           SYSLIB
                    .WS
S089
           -CATALOG.089
                                 SYSLIB volume 2 of 3 - December 18, 1982
S089
           HELP
                   .COM
                                 Help program
S089.01
           SYSLIBHD.WS
                          15K
                                 Ref
                                      manual table of contents
                            3 K
S089.02
           SYSLIBID.WS
                                 Reference manual index
S089.03
                            3 K
           SYSLIBR .WS
                                 Reference manual index
S089.04
           SYSLIBS .WS
                           42K
                                 SYSLIB Reference menual (part 2)
S089.05
           SYSLIB
                    .HLP
                           15K
                                 SYSLIB Help file
S089.06
           SYSLIB1
                    .HLP
                           14K
                            4K
S089.07
           SYSLIB2 .HLP
                    .HLP
S089.08
           SYSLIB3
                            8 K
S089.09
           SYSLIB4 .HLP
                            6 K
S089.10
           SYSLIB5 .HLP
                            6 K
S089.11
           SYSLIB6 .HLP
                            4K
                    .HLP
S089.12
           SYSLIB7
                            6 K
S089.13
                            6 K
           SYSLIBB
                   .HLP
```

```
S089.14
            SYSLIB9
                      .HLP
                               7 K
                               7 K
S089.15
            SYSLIBA
                      .HLP
                               5K
S089.16
            SYSLIBB .HLP
                               8 K
S089.17
            SYSLIBC
                      .HLP
                              13K
                                     SYSLIB REL file
S089.18
            SYSLIB
                      .REL
            SOFILEIO.MAC
                               2 K
                                     SYSLIB Source file
S089.19
                               2 K
S089.20
            S1FILEIO.MAC
                               2 K
                                               1
            S2FILEIO.MAC
S089.21
                               2 K
                                               į
            S3FILEIO.MAC
S089.22
                               3 K
            SBBLINE .MAC
S089.23
                      . MAC
                               1 K
S089.24
            SBDOS
                               3 K
                      .MAC
S089.25
            SBIOS
                      . MAC
                              3 K
S089.26
            SBLINE
                      . MAC
                               1 K
S089.27
            SCAPS
            SCAPSTR
                      . MAC
                               1 K
S089.28
                      . MAC
                               1 K
S089.29
            SCATH
                      .MAC
                               2K
S089.30
            SCCOUT
S089.31
            SCIN
                      .MAC
                               1 K
                               2 K
                      . MAC
S089.32
            SCLOUT
                      . MAC
S089.33
            SCODEND
                               1 K
            SCOMP
                      .MAC
                               2 K
S089.34
                               1 K
SD89.35
            SCOMPHD
                      .MAC
                      .MAC
                               1 K
S089.36
            SCONDIN
                      . MAC
SD89.37
            SCOUT
                              1 K
S089.38
            SCPOUT
                      .MAC
                               2 K
S089.39
            SCRC
                      .MAC
                               4K
                               4K
S089.40
            SCRC1
                      .MAC
S089.41
            SCRLF
                      .MAC
                               1 K
                               1 K
5089.42
            SCST
                      . MAC
                                     SYSLIB volume 3 of 3 - December 18, 1982
            -CATALOG.090
S090
            SDIR
                      . MAC
                             34K
S090.01
                                     SYSLIB source files
S090.02
            SEN
                      .MAC
                               1 K
5090.03
            SEVAL
                      .MAC
                               4K
S090.04
            SEVAL1
                      .MAC
                               2 K
S090.05
            SEVAL2
                      .MAC
                               2 K
S090.06
                      .MAC
                               2 K
            SEVAL3
                      .MAC
S090.07
            SEVAL4
                               2K
S090.08
            SFCLOS
                               1 K
                      .MAC
S090.09
                      . MAC
            SFDEL
                               1 K
S090.10
            SFEXIST
                      .MAC
                              1 K
SD90.11
            SFILEIO
                      . MAC
                               9 K
S090.12
                      .MAC
            SFILL
                               2K
                      .MAC
S090.13
            SFMAKE
                               1 K
S090.14
                      .MAC
            SFNAME
                               5K
S090.15
            SFOPEN
                      .MAC
                               2 K
S090.16
                               1 K
            SFREAD
                      . MAC
S090.17
            SFRENAME MAC
                               2 K
                      .MAC
S090.18
            SFWRIT
                               1 K
S090.19
            SHDR
                      .MAC
                               1 K
            SINITFCB.MAC
S090.20
                               1 K
S090.21
            SINLINE .MAC
                               6K
S090.22
            SINSFORM.MAC
                               3 K
S090.23
            SINSTR
                      .MAC
                               2K
S090.24
                      .MAC
            SLA2HC
                               1 K
S090.25
            SLADC
                      .MAC
                               2 K
S090.26
            SLCRLF
                      . MAC
                               1 K
S090.27
                      . MAC
            SLHL4HC
                               1 K
S090.28
            SLHL5DC
                               2K
                      .MAC
S090.29
            SLOUT
                      . MAC
                               1 K
S090.30
            SLPRINT
                               1 K
                      . MAC
S090.31
            SLPSTR
                      .MAC
                               2K
S090.32
            SMA2HC
                      . MAC
                               1 K
S090.33
            SMADC
                      . MAC
                               2K
                      . MAC
S090.34
            SMATH
                               5K
S090.35
            SMHL4HC
                               1 K
                      . MAC
```

```
. MAC
S090.36
           SMHL5DC
                             3 K
S090.37
           SMOVE
                     . MAC
                             3 K
                             1 K
S090.38
           SPA2HC
                     . MAC
                             2K
S090.39
           SPADC
                     . MAC
                             3 K
                     . MAC
           SPAUSE
S090.40
                             1 K
           SPHL4HC
                     _ MAC
S090.41
                     . MAC
                             2 K
           SPHL5DC
S090.42
                     .MAC
                             1 K
           SPOUT
S090.43
                     .MAC
                             1 K
S090.44
           SPRINT
                     . MAC
S090.45
           SPSTR
                             2K
                             2 K
                     . MAC
S090.46
           SRAND
                     . MAC
                             1 K
S090.47
           SRIN
                             2 K
           SSCANNER.MAC
S090.48
                     . MAC
S090.49
                           14K
           SSORT
                             2 K
           SUD
                     . MAC
S090.50
                             1 K
S090.51
           SVERSION.MAC
                             4K
           SYSTEST .MAC
S090.52
                             3 K
S090.53
           SYSTEST1.MAC
S090.54
           SYSTEST2.MAC
                             3 K
           SYSTEST3.MAC
                             4K
S090.55
S090.56
           SYSTEST4.MAC
                             6 K
                             2 K
           SYSTEST5.MAC
S090.57
S090.58
           SYSTEST6.MAC
                             5K
                             7 K
           SZCPR
                     . MAC
S090.59
S090.60
           SZFNAME .MAC
                           16K
                             3 K
S090.61
           SZGPINS .MAC
S091
           -CATALOG.091
                                  Contents of SIG/M volume 91 - December 18, 1982
                     .091
                                  disk documention
S091
           ABS
           DUTIL
                           64K
                                  Revision of DU (Disk utility)
S091.01
                     .ASM
S091.02
           DUTIL
                     .COM
                             9 K
                                  with extended features
S091.03
           DASM
                     .COM
                           10K
                                  Disassembles Zilog Z80 or TDL
S091.04
           DASM
                     . MAC
                           74K
                                  mnemonics; based on RESOURCE;
                    .MAC
S091.05
                           13K
                                  built in documentation
           DASMTDL
S091.06
           DASMZLG .MAC
                           17 K
S091,07
                     .COM
                             5K
                                  Translates Intel 8080 source
           XLATE2
S091.08
           XLATE2
                     . MAC
                           36K
                                  code to Zilog Z80 code
S092
           -CATALOG.092
                                  Contents of SIG/M volume 92 - January 14, 1983
S092.01
           A68K
                     .COM
                           41 K
                                  68000 Cross Assembler
S092.02
                     . DOC
           A68K
                             9 K
S092.03
           A68K
                     . DON
                             3 K
S092.04
           DATE
                     .COM
                             8 K
S092.05
           DATE
                     .DOC
                             1 K
                             1 K
S092.06
           T5
                     .ASM
S092.07
                             1 K
           T5
                     .HEX
S092.08
           T5
                     .PRN
                             3 K
S092.09
           RBBS-USE.DOC
                           10K
                                  Bulletin Board Program
                    .ASC
S092.10
           RBBS31
                           27 K
S092.11
           RBBS31A .DOC
                             9 K
5092.12
           RBSUTL31.BAS
                           10K
S092.13
           COMPILER.LO1
                             9 K
                                  Little Ada Compiler requires
5092.14
           LITL-ADA.ASM
                           26 K
                                  adaptation to run on other
S092.15
                                  than a Polymorphic system
           LITL-ADA.DOC
                             1 K
S092.16
           LITL-ADA.PRN
                           45K
S093
           -CATALOG.093
                                  Contents of SIG/M volume 93 - January 15, 1983
S093.01
           MODEM798.ASM
                           88K
                                  Modem program update
S093.02
                           20 K
           MODEM798.HIS
S093.03
           MODEM798.INF
                             4K
S093.04
           MODEM797.LIB
                           19K
S093.05
           MODEM798.OBJ
                           16K
S093.06
           MODEM798.SET
                             6 K
S093.07
           TRSMODEM.COM
                           16K
S093.08
           MCNFG798.ASM
                           13K
                                  Modem Configure - general
S093.09
           MCOSB798.ASM
                             9 K
                                                       Osborne
```

```
_093.10
           MCQXS798.ASM
                           1 B K
                                                       Epson QX-10
                            2 K
                                  Phone number file
S093.11
           MNUMB798.ASM
                     .ASM
                           14K
                                  Changes Modem phone
S093.12
           CHGLIB
                            2 K
S093.13
           CHGLIB
                     .com
                                  library
                            4K
                     .DOC
S093.14
           CHGLIB
           <see Z20>
S094
S095
           <see Z21>
                                  contents of Sig/M volume 96 - February 3, 1983
           -CATALOG.096
S096
                           12K
                                  Tests Compupro clock board
S096.01
           CLOCK
                     .A86
                           18K
                    .A86
           CRCK-51
                                  Checksum program
S096.02
S096.03
           D
                     .A86
                           18K
                                  Directory program
           ERQ
                     .A86
                            3 K
                                  Selective file erase
S096.04
           FILE-EXT.A86
                            8K
                                  Directpry program
S096.05
                                  Checks disks
           FINDBAD .A86
                           33K
S096.06
                           11K
                                  "Hold" that computer!
           INUSE
                     .A86
S096.07
                            5K
           MUCHTEXT.A86
                                  Word count
S096.08
                            7 K
           PAGE
                     .A86
                                  Pages output
S096.09
                     .A86
                           13K
                                  Output to printer
           PRINT
S096.10
S096.11
           SD
                     .A86
                           15K
                                  Super directory
                     .A86
                           40 K
                                  Detailed directory list
           XDIR
S096.12
                            7 K
SD96.13
           XDIR-A86.DOC
           <see Z22>
S097
                                  ZCPR2 volume 1 of 10 - February 14, 1983
S098
           -CATALOG.098
S098
           ZCPR2
                     .IDX
                                  index of this ten volume series
S098.01
           SYSIO
                     .ASM
                           29K
                                  ZCPR2
S098.02
           ZCPR2
                     .ASM
                           56 K
                     .LIB
                           15K
S098.03
           ZCPRHDR
S098.04
           README
                    .TXT
                            3 K
                                  SYSLIB 2.3
                    .MAC
                            2K
S098.05
           SCLINE
                                       ļ
S098.06
           SCRC
                     . MAC
                            3 K
S098.07
           SCRC1
                    . MAC
                            3 K
                            3 K
S098.08
           SCRC2
                     .MAC
5098.09
                    .MAC
           SFNAME
                            5K
                            1 K
S098.10
           SMHL4HC .MAC
                            1 K
S098.11
           SVERSION.MAC
S098.12
           SYSLIB
                    .HLP
                           14K
S098.13
                     .REL
                           14K
           SYSLIB
S098.14
           SYSLIB8 .HLP
                            7 K
S098.15
           SYSLIB9
                    .HLP
                            8 K
S098.16
                           10K
           SYSLIBC .HLP
S098.16
                     . MAC
                            7 K
           SZCPR
S098.17
           SZFNAME
                    . MAC
                           18K
S098.18
           SZGPINS .MAC
                            4K
S099
                                  ZCPR2 volume 2 of 10 - February 14, 1983
           -CATALOG.099
S099
           ZCPR2
                     .IDX
                                  index of this ten volume series
S099.01
           DU2
                     .ASM
                           72K
S099.02
           HELP2
                     .ASM
                           33K
S099.03
           LRUNZ
                    .ASM
                           26 K
S099.04
           SUB2
                    .ASM
                           31K
S099.05
           ZEX
                     .ASM
                           45K
S099.06
           ZEX
                     .ZEX
                            5K
S100
           -CATALOG.100
                                  ZCPR2 volume 3 of 10 - February 14, 1983
S100
           ZCPR2
                     .IDX
                                  index of this ten volume series
S100.01
           CCPLOC
                     . MAC
                            5K
S100.02
           CD
                    .MAC
                            9 K
           COMPARE
S100.03
                    .MAC
                           13K
$100.04
                    . MAC
           CRC
                           20K
           DEVICE
S100.05
                     .MAC
                           13K
S100.06
           DIFF
                     . MAC
                           17K
```

```
S100.07
                      . MAC
                              6 K
            ECHO
$100.08
            ERASE
                      . MAC
                             15K
                             43 K
$100.09
            GENINS
                      . MAC
            IOLOADER.MAC
                              7 K
$100.10
                             10K
                      . MAC
S100.11
            LD
                             12K
S100.12
            LDIRZ
                      .MAC
                             14K
            MCHECK
                      . MAC
S100.13
                             37 K
S100.14
            MCOPY
                      . MAC
                                   ZCPR2 volume 4 of 10 - February 14, 1983
S101
            -CATALOG.101
                                   Index of ten volume ZCPR2 series
S101
            ZCPR2
                      .IDX
                              1 K
            MENU
                      .CPR
S101.01
                      . MAC
                             24K
S101.02
            MENU
                      . MAC
                             21 K
S101.03
            MKDIR
                      . MAC
                             14K
            PATH
S101.04
                             18K
            PROTECT
                      . MAC
S101.05
                      . MAC
                             12K
S101.06
            PWD
                              7 K
S101.07
            RECORD
                      . MAC
            RENAME
                      . MAC
                             18K
S101.08
                              3 K
            SINSFORM.MAC
S101.09
            STARTUP .MAC
                             10K
S101.10
                             11K
S101.11
            TEMPLATE.MAC
                      . MAC
                             13K
            TINIT
S101.12
S101.13
            WHEEL
                      .MAC
                              6 K
S101.14
            XDIR3
                      . MAC
                             39K
S102
            -CATALOG.102
                                   ZCPR2 volume 5 of 10 - February 14, 1983
S102.01
            CCPLOC
                      .COM
                              1 K
                      .COM
                              4K
            CD
S102.02
            COMPARE
$102.03
                      .COM
                              5K
S102.04
            CONFIG
                      .COM
                             19K
$102.05
            CRC
                      .COM
                              8 K
                                   (ZCPR2 VERSION)
S102.06
            DEVICE
                      .COM
                              3 K
S102.07
            DIFF
                      .COM
                              6 K
S102.08
            DU2
                      .COM
                             10K
$102.09
            ECHO
                      .COM
                              1 K
S102.10
            ERASE
                      .COM
                              7 K
S102.11
            GENINS
                      .COM
                             13K
S102.12
                              3 K
            HELP
                      .COM
$102.13
            IOLOADER.COM
                              4K
S102.14
                      .COM
                              5K
            LD
$102.15
            LDIRZ
                      .COM
                              6 K
S102.16
            LRUNZ
                      .COM
                              2K
S102.17
            MCHECK
                      .COM
                              5K
S102.18
            MCOPY
                      .COM
                             11K
S102.19
                      .COM
                              2K
            MENU
S102.20
            MKDIR
                      .COM
                              8 K
5102.21
                      .COM
            PATH
                              5 K
S102.22
            PROTECT
                      .COM
                              8K
S102.23
            PWD
                      . COM
                              5K
S102.24
            RECORD
                      .COM
                              2 K
$102.25
            RENAME
                      .COM
                              8 K
            STARTUP
S102.26
                      .COM
                              4K
            SUB
S102.27
                      .COM
                              3 K
                      .COM
S102.28
            TINIT
                              5K
$102.29
                      .COM
            WHEEL
                              2K
S102.30
            XDIR
                      .COM
                             11K
S102.31
                              6 K
            ZEX
                      .COM
S102.32
            TEMPLATE.MAC
                             11K
S102.33
            CFILES
                      .HLP
                             22K
S102.34
            COMPARE
                      .HLP
                              7 K
S102.35
            MCOPY
                      . HLP
                             11K
S102.36
            ZCPR2
                      .HLP
                              6 K
5103
           -CATALOG.103
                                   ZCPR2 volume 6 of 10 - February 14, 1983
                             24K
```

S103.01

CPMTR

.HLP

```
S103.02
           DU2
                    .HLP
                           35K
S103.03
                            1 K
           HELP
                    .HLP
           HELP2
                    .HLP
                          22K
S103.04
                           14K
                    .HLP
S103.05
           IO
                    .HLP
                          27K
S103.06
           LU
           MENU
                    . HLP
                          29K
S103.07
                    .HLP
                           35K
S103.08
           NDIRS
                          22K
                    .HLP
           XDIR3
S103.09
                    .HLP
                           22K
S103.10
           Z2ALT
                            7 K
                    .HLP
S103.11
           Z2RES
           -CATALOG.104
                                 ZCPR2 volume 7 of 10 - February 14, 1983
S104
S104
                    .COM
                                 checksum program
           CRC
                    .IDX
S104
           ZCPR2
                                 Index of ten Volume ZCPR2 series
           SIG/M
                    .LIB
                                 donation form
S104
S104.01
           Z2CON
                    .WS
                         120K
                            8K
                    .WSH
S104.02
           Z2CON
S104.03
           Z2INS
                    . WS
                           87 K
                            6 K
S104.04
           Z2INS
                    .WSH
                                 ZCPR2 volume 8 of 10 - February 14, 1983
S105
           -CATALOG.105
                    .COM
                                 checksum program
S105
           CRC
           ZCPR2
                                 Index of ten Volume ZCPR2 series
S105
                    .IDX
                    .LIB
                                 donation form
S105
           SIG/M
                    .WS
                           77K
S105.01
           Z2UG
S105.02
           Z2UG
                    .WSH
                           16K
                    .WS
                          72K
           Z2UG1
S105.03
                    .WS
                           56 K
S105.04
           Z2UG2
                                 ZCPR2 volume 9 of 10 - February 14, 1983
S106
           -CATALOG.106
                    .COM
S106
           CRC
                                 checksum program
S106
           ZCPR2
                    .IDX
                                 Index of ten Volume ZCPR2 series
S106
           SIG/M
                    .LIB
                                 donation form
S106.01
                         107K
           SYSLIB
                    .WS
S106.02
           Z2UG3
                   · .WS
                           50 K
S107
           -CATALOG.107
                                 ZCPR2 volume 10 of 10 - February 14, 1983
                    .COM
S107
           CRC
                                 checksum program
S107
           ZCPR2
                    .IDX
                                 Index of ten Volume ZCPR2 series
                    .LIB
S107
           SIG/M
                                 donation form
           SYSLIBHD.WS
S107.01
                          12K
S107.02
           SYSLIBUG.WS
                         123K
S108
           -CATALOG.108
                                 ZCPR2 update - March 7, 1983
S108
           CRC
                    . COM
                                 checksum program
S108
                    .MOD
           Z2SYS-1
                                 explains upgrade
S108.01
           DU2
                    . ASM
                          72K
                                 upgrades queue status report
$108.02
           DU2
                    .COM
                          10K
S108.03
           LDIRZ
                    .COM
                           6 K
                                 corrects for M80 assembler error
S108.04
           MKDIR
                    .COM
                            8K
                                 corrects identifier error
S108.05
           SSORT
                    .MAC
                           14K
                                 corrects identifier error
S108.06
           SVERSION.MAC
                           1 K
                                 reflects new version number
S108.07
           SYSLIB
                    .REL
                          14K
                                 Version 2.5 of SYSLIB
S108.08
           ZCPR2
                    .ASM
                          56K
                                 upgrades to mod 0.3
$108.09
           ZCPRHDR
                    .LIB
                           15K
                                 upgrades to mod 0.3
S108.10
           Z2RAT
                    . WQ
                          34K
                                 ZCPR2 Rationale Manual (squeezed WS file)
S108.11
           Z2RAT
                    . WQH
                            3 K
                                 Rationale Manual headers
S109
           -CATALOG.109
                                 contents of SIG/M Volume 109 - March 15,1983
S109
           ABSTRACT.109
                                 program documentation
S109.01
           SECRTARY.ASM
                           60K
                                 Simple word processor program
S109.02
           SECRTARY.COM
                          11K
S109.03
           NSSEC
                    .ASM
                           63K
                                 North Star version
$109.04
           USERMANO.TXT
                            3 K
                                 User manual for the program
S109.05
           USERMAN1.TXT
                          22K
                                 written with the program (and to be
$109.06
           USERMAN3.TXT
                           15K
                                  irinted 'row the irorram).
```

```
17K
S109.07
           USERMAN4.TXT
S109.08
           USERMAN5.TXT
                            6 K
                            8 K
S109.09
           ADDENDUM.TXT
                            4K
           ADDEND2 .TXT
S109,10
                            4K
                                 demo text files
           DEMOFILE.TXT
S109.11
                            2 K
           SAMPLTTR.TXT
S109.12
S109.13
                            1 K
           SAMPDATA.DAT
                                 contents of SIG/M Volume 110 - March 15,1983
S110
           -CATALOG.110
           ABSTRACT.110
                                 program documentation
S110
                                 checksum program
S110
           CRC
                    .COM
                    .LIB
                                 donation program
           SIG/M
S110
                            4K
                                 Amateur Computer Group of New Jersey
           MAIN
                    . CMD
S110.01
                            5K
                                 demonstration dBASEII modular data
           ACG
                    .DBF
S110.02
                            3 K
                                 base. To initiate, type "dBASE main"
                    .ACG
S110.03
           ADD
                    .ACG
                            1 K
                                 and follow prompts. Note the comments
S110.04
           BACKUP
                            1 K
S110.05
           DEFAULTS.ACG
                                 in the files.
                            1 K
           DELCHECK.ACG
S110.06
S110.07
                            1 K
           DELETE
                    .ACG
                            2K
           DUPCHECK.ACG
S110.08
                    .ACG
                            3 K
           DUPREC
S110.09
                            3 K
S110.10
           EDIT
                    .ACG
                   ..ACG
S110.11
           HELP
                            1 K
           INIT
                    .ACG
                            2 K
S110.12
                            2K
           MAINTAIN.ACG
S110.13
                    .ACG
                            2K
S110.14
           PHONE
                    .ACG
                            2K
S110.15
           PRINT
           PURGE
                    .ACG
                            2K
S110.16
                    .ACG
                            3 K
S110.17
           REPORT
           SEARCH
                    .ACG
                            4K
S110.18
                    .ACG
S110.19
           VALID
                            5K
                            2 K
S110.20
           VERIFDEL.ACG
                            2K
S110.21
           VERIFNEW.ACG
S110.22
           WSFILE
                    .ACG
                            4K
S110.23
           MAINTAIN.FMT
                            1 K
S110.24
           MOD-REC .FMT
                            3 K
S110.25
           SAY-REC .FMT
                            3 K
S110.26
           COMPANY . NDX
                            4K
           LASTNAME.NDX
                            3 K
S110.27
S110.28
           ZIP
                    .NDX
                            1 K
           CPS
$110.29
                    .CMD
                            3 K
                                 Sets date from Mountain Hardware
S110.30
           CPS
                    .DOC
                            1 K
                                 CPS card
S110.31
           DBDIR
                    .DOC
                            1 K
                                 Example of ASM file in dBASE for
S110.32
           DBDIR
                    . LBR
                          15K
                                 directory read.
S110.33
           FORM
                    . CMD
                            2K
                                 Prints dBASE fields and
$110.34
           FORM
                            1 K
                    .Doc
                                 structure
           LABELPT1.CMD
S110.35
                            5K
                                 Structure for label printing
S110.36
           LABELPT2.CMD
                            5K
                                 file.
S110.37
           POKE1
                    . CMD
                            4K
                                 Poke memory from dBASE
S110.38
           POKE1
                            1 K
                    .DOC
S110.39
           SHOWMEM .CMD
                            5K
                                 Displays memory from dBASE
S110.40
           SHOWMEM .DOC
                            1 K
S110.41
           TIMECHAR.CMD
                            4K
                                 Structure for job cost calculation.
S110.42
           ARCS-DEP.CAL
                          15K
                                 Calculates depreciation in Super Calc.
S110.43
           RULE-78 .CAL
                          11K
                                 Supercalc Rule of 78 calculation.
S110.44
           SAP27
                    .COM
                            2 K
                                 Updated sort and pack program.
S110.45
           SWEEP37 .COM
                                 Updated SWEEP program (WASH).
                          28K
S111
           -CATALOG.111
                                  contents of SIG/M Volume 111 - March 15,1983
S111
           CRC
                    .COM
                                  checksum program
S111
           SIG/M
                    .LIB
                                  donation program
S111.01
           BACKUP
                    .ASM
                          31 K
                                  Backs up hard disk where entire file
S111.02
           BACKUP
                    . COM
                            4K
                                  fits on one floppy disk.
S111.03
           BACKUP
                            7 K
                    .Doc
S111.04
           BIGBURST.ASM
                          12K
                                  Backs up hard disk where file must be
S111.05
                            2 K
           BIGBURST.COM
                                              itile loupies because of
```

```
S111.06
                               3 K
              BIGBURST.DOC
                                      size.
   S111.07
                              17 K
                                      Backs up a floppy to a floppy in a
              FLOPCOPY.ASM
× S111.08
              FLOPCOPY.COM
                               3 K
                                      hard disk system with only a single
                               2 K
   S111.09
              FLOPCOPY.DOC
                                     Copy files between 5" and 8" CP/M.
                               7 K
   S111.10
              INTERCPM.ASM
                               ЗК
   S111.11
              INTERCPM.COM
                               2 K
   S111.12
              INTERCPM.DOC
                               1 K
   S111.13
              JΡ
                       .ASM
                               1 K
                       .COM
   S111.14
              JP
                       .DOC
                               1 K
   S111.15
              JP
                              20K
                                      Moves data files between CP/M and
              INTERDOS.ASM
   S111.16
                                     North Star disks.
   S111.17
              INTERDOS.COM
                               6 K
                               6 K
              INTERDOS.DOC
   S111.18
              MULTCOPY.ASM
                              14K
                                      Similar to PIP but prompts for new
   S111.19
                               2 K
                                      floppy when first one filled.
              MULTCOPY.COM
   S111.20
                               1 K
              MULTCOPY.DOC
   S111.21
                                      contents of SIG/M Volume 112 - March 15,1983
              -CATALOG.112
   S112
                              15K
   S112.01
              RBBENT27.BQS
                               4K
   S112.02
              RBBEXIT1.BQS
                              19K
   S112.03
              RBBMIN27.BQS
              RBBMIN27.DQC
                              10K
   S112.04
   S112.05
              RBBS-I/O.NQW
                               ЗΚ
                              18K
              RBBS-PC .BQS
   S112.06
   S112.07
              RBBS31
                       .AQC
                              19K
                               3 K
   S112.08
              RBBS31
                       . DQC
   $112.09
              RBBSTIME.FQX
                               2K
   S112.10
              RBSCLOCK.BAS
                               3 K
              RBSPURGE.BQS
                               3 K
   S112.11
              RBSPURGE.DQC
                               2K
   5112.12
                               8K
   S112.13
              RBSUTL31.AQC
                               2K
   S112.14
              SIGNON
                       .SEE
                                       Explains disk.
              SIGNON-1.ARC
   S112.15
                              64K
   S112.16
              SIGNON-1.DIR
                               1 K
   S112.17
              SIGNON-2.ARC
                              62K
   S112.18
              SIGNON-2.DIR
                               1 K
                                      contents of Sig/M volume 113 - March 17, 1983
   S113
              -CATALOG.113
   S113
              ABSTRACT.113
                                      disk readme file
S113
                                     unsqueeze program
              usa
                       .COM
              CPMZ100 .HEX
   S113.01
                              25K
                                     KERMIT - Modem Communications
   S113.02
                                      for 8080/Z80 CP/M, IBM PC-Dos
              CPMZ100 .NOT
                               2 K
                       .CQ
   S113.03
              KERMIT
                              23 K
                                     with main frame host systems
   S113.04
              PCDOWNLO.DQC
                               7 K
   S113.05
              PCKERM
                       .CQR
                              12K
   S113.06
              PCKERMIT.ASM
                            119K
   S113.07
              PCKERMIT.FQX
                              11K
   S113.08
              PCKERMIT.HLP
                               3 K
   S113.09
              PCKERMIT.NOT
                               4K
   S113.10
              PCKEXE
                       .BAS
                               2 K
   S113.11
              PCKFIX
                       .ASM
                               5K
   S113.12
              PCKGET
                       .BAS
                               2K
   S113.13
              PCKSEND .FOR
                               1 K
   S114
              -CATALOG.114
                                     contents of Sig/M volume 114 - April 1, 1983
   S114
              CRC
                       .COM
                                     checksum program
   S114
              ABSTRACT.114
                                     disk documentation and copywrite notice
   S114.01
              PISTOL
                       .COM
                                      PISTOL - "a language in the footsteps
                              16K
  S114.02
              PISTOL
                       .C
                               5K
                                      of FORTH and STOIC"
   S114.03
              PISTOL
                       . H
                               5K
                       .HLP
   5114.04
              PISTOL
                               7 K
   S114.05
                       .PAS
              PISTOL
                              42 K
   S114.06
              ARITH
                               2 K
   S114.07
              CORE2
                              16K
   S114.08
              DEFS
                               3 K
   S114.09
              EDITOR
                               4K
```

```
S114.10
           ENVIRON
                    .DOC
                            2K
S114.11
           FUTURE
                    .DEV
                            5K
                            9 K
S114.12
           ΙΟ
                           11K
           ITCOND
S114.13
                            2K
           LOGIC
S114.14
                            4K
           MEMOPS
S114.15
                            5K
S114.16
           MISC
                           23 K
S114.17
           PBASE2
                            6 K
S114.18
           PIST2A
                    .C
           PIST2B
                    .C
                            4K
S114.19
                            4K
           PIST2C
                    .C
S114.20
           PIST2D
                    . C
                            4K
S114.20
                            7 K
                    .C
           PIST2E
S114.21
           PISTSUB .SUB
                            1 K
S114.22
                            7 K
                    . ME
           READ
S114.23
           STACK
                            3 K
S114.24
                            4K
S114.25
           SYSCONS
S114.26
           SYSVARS
                            8 K
                           13K
S114.27
           TUTORIAL.
S114.28
           VOCAB
                            6 K
           -CATALOG.115
S115.
S115.00
           ABSTRACT .115
                            8 K
                                 Compares ASCII files
           COMPASC .ASM
S115.01
           COMPASC
S115.02
                    .COM
                             2 K
                             9 K
S115.03
           COMPBIN
                    .ASM
                                  Compares binary files
                    .COM
                             2K
           COMPBIN
S115.04
                    .FOR
                            10K
                                  Process CP/M format 8" single density
S115.05
           CPMD2
                             2 K
                                   disks on PDP-11 under RT-11 or TSX-Plus
S115.06
           CPMDEC
                    .DOC
           CPMDEC
                    .FOR
                            24K
S115.07
                                  DOS operating systems
S115.08
           DEL
                    .ASM
                             4K
                                  Query delete program
S115.09
           DEL
                    .COM
                             1 K
S115.10
           DEL
                    .Doc
                             2 K
                    .ASM
                             7 K
S115.11
           FPRINT
                                  Sets printer left margin, double space,
S115.12
            FPRINT
                     .COM
                              2 K
                                    all caps and number of copies
                             2 K
5115.13
           FPRINT
                    .Doc
S115.14
           MORTGAGE.COM
                            21K
                                  Calculates Canadian mortgage payments
                            10K
S115.15
           MORTGAGE.PLI
                             3 K
                                  MUMATH fix
S115.16
           MUFIX
                    .Doc
S115.17
           MUMATRIX.FIX
                             2 K
                                   Combined software-hardware pseudo run
S115.18
           PSEUDO
                    .DOC
                             8K
S115.19
           PSEUDO
                    .ASM
                            16K
                                   to single step
S115.20
           RCPM-36
                    .LST
                            31K
                                  Revised Bulletin Board list
S115.21
           ROMSUM
                    .ASM
                             3 K
                                  Verifies ROMs
S115.22
           ROMSUM
                    .COM
                             1 K
                                  Supercalc matrix for Canadian taxes
S115.23
           T1-TAX82.CAL
                            17K
S115.24
                            14K
           UNSPOOL .ASM
                                  Updated spooler
S115.25
           UNSPOOL .COM
                             1 K
S116.
           ABSTRACT.116
S116.00
          -CATALOG.116
                             OK CONTENTS OF SIGMUG REL 16 MAY 83
S116.01
           APLFORTH.TIP
                             1 K
                                  How to run Forth on an Apple
5116.02
                             6 K
                                  Implements ZCPR2 on an Apple
           APZCPR2 .LBR
S116.03
           BISHOW11.ASM
                            10K
                                  SHOW - upgraded to go forwards and
5116.04
           BISHOW11.COM
                             1 K
                                  backwards in the file
S116.05
           FORTH130.ASM
                            72K
                                  Forth for the Apple (or other
S116.06
           FORTH130.USE
                             3 K
                                  machines)
S116.07
           I/OCAP11.ASM
                            19K
                                  Creates disk file of all I/O
S116.08
           LISTTU84.ASM
                            44K
                                  List program to take advantage of
S116.09
           LISTTU84.COM
                             4K
                                  Okidata 84 features
S116.10
           NZCPR203.DIF
                             4K
                                  Unofficial ZCPR2 upgrades
S116.11
           NZCPR204.DIF
                             6 K
S116.12
           NZCPR205.DIF
                             5K
                                  /
                             7 K
S116.13
           NZCPR206.DIF
S116.14
           NZCPR207.DIF
                            10K
5116,15
           NZCPRHOR.DIF
                             3 K
```

```
S116.16
           TARGET
                    .BAS
                                   Microsoft Basic game
S117.
                             Sig/M volume 117 released May 16, 1983
           -CATALOG.117
S117.00
           ABSTRACT.117
                            program information
S117.01
           CATXRF11.BAS
                             4K
                                   Update for master catalog system prints
                            21 K
                                   references by file name, ext or disk no.
S117.02
           CATXRF11.COM
                             7 K
S117.03
           MDM705HA.ASM
                                   DC Hayes Modem 705 overlay
                             1 K
S117.04
           MDM705KP.MQG
                                   KAYPRO Modem 705 overlay
                            87K
                                   Slows Modem 705 dialing
S117.05
           MDM705P .AQM
                            10K
                                   Modem 705 H-19 overlay
S117.06
           MDM705US.ASM
                             8K
S117.07
           REDEF
                    . MAC
                                   Allows simple redefinition of key input
                             1 K
S117.08
           Z80
                    .RDF
           TOOLINTF.DOC
                            19K
S117.09
                                   Library of useful macros
                    . AQC
           TOOLS
                            38K
S117.10
                             2K
                                  /
S117.11
           TOOLS
                    .DOC
                            10K
S117.12
           TOOLS
                    .REL
                                                                  14, 1983
           -CATALOG.118
                                 SIGMUG 118 released
S118.
                                                           June
S118.00
           ABSTRACT.118
                                   introduction to disk
                    .COM
S118.01
           XLISP
                            39K
                                  XLISP
           XLISP
                    .DOC
                            29K
S118.02
                             4K
S118.03
           ALLOC
                    .C
S118.04
           JUNK
                    . C
                             1 K
           PT
                             4K
S118.05
                    .LSP
                    .ASM
                             3 K
S118.06
           SBRK
S118.07
           SETJMP
                    .ASM
                             2K
                             1 K
S118.08
           SETJMP
                    . H
S118.09
                    . LSP
                             4K
           Т
                    . C
                             2 K
S118.10
           XLBIND
                    .C
                             9K
S118.11
           XLDMEM
S118.12
           XLEVAL
                    .C
                             7 K
                    .C
5118.13
           XLFIO
                             5 K
S118.14
           XLIO
                    .C
                             2 K
                    . C
S118.15
           XLISP
                             2 K
S118.16
           XLISP
                    . Н
                             6 K
S118.17
           XLISP
                             1 K
                    .LNK
S118.18
           XLKMAP
                             7 K
                    .C
S118.19
           XLLIST
                    .C
                            12K
S118.20
           XLMAKE
                    .SUB
                             2 K
S118.21
           XLMATH
                    .C
                             9 K
S118.22
           XLOBJ
                    .C
                            18K
S118.23
           XLPRIN
                    .C
                             4K
S118.24
           XLREAD
                    . C
                             8K
                    .C
S118.25
           XLSTR
                             6 K
S118.26
           XLSUBR
                    .C
                            12K
S119.
           ABSTRACT.119
                              Library Filing & Utility Sys, BYEII Lib
S119.00
           -CATALOG.119
                             SIG/M Volume 119 released June 19, 1983
S119.01
           BYEII
                    .LBR
                            72K
                                  Second generation BYE in LBR format.
S119.02
           CHGLIB14.LBR
                            18K
                                   Library file and utility system.
S119.03
                                  One file contains all of the
           LBR
                    .DOC
                             3 K
S119.04
           LCRCKNEW.LBR
                            10K
                                   files and information necessary
S119.05
           LDIR
                    .COM
                             6 K
                                   to get a program online. All program
S119.06
           LDIR

    LBR

                            13K
                                  modules are compacted into a single
                    .ASM
S119.07
           LM16
                            33K
                                   library (.LBR) file. Using these
S119.08
           LMODEMXX.MSG
                             2 K
                                  programs you can extract from the
S119.09
           LRUN20
                    . ASM
                            21 K
                                   LBR file those portions of the total
$119.10
           LRUN20
                    .COM
                             2K
                                   files you may need. In this way when
S119.11
                    . DOC
           LU210
                            29K
                                  you receive a library file you are
S119.12
           LU211
                    .COM
                            18K
                                  assured that you have all the info
S119.13
           LUDEF1
                    .Doc
                             7 K
                                   you need.
S120.
           ABSTRACT.120
                                 MODEM901 and H-89 Music Composer
$120.00
           -CATALOG.120
                            SIG/M Volume 120 released
                                                            June 19, 1983
$120.01
           MODEM901.FIX
                             1 K
                                  MODEM9xx merges MODEM796
5120.02
           MODEM901.INF
                             4K
                                  and MDM707 in .LBR form.
```

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```
$120.03
            MODEM901.LBR
                           140K
                                   [see SIG/M 119].
                             18K
                                   Change phone numbers in MODEM
 S120.04
            CHGLIB14.LBR
                              4K
 $120.05
            ABBA
                                   Music composing program
 $120.06
            COMPOSER.ASM
                             32K
                                   for H-89 or any GI AY38910
            COMPOSER.COM
                              4K
                                   program sound chip board.
 $120.07
 $120.08
            COMPOSER.DOC
                              9 K
                                   1
                              3 K
 $120.09
            FAMILY
                                   1
                              1 K
 S120.10
            FATHER
                                   1
                              4K
 S120.11
            LOVEYOU
                                   /
                              2 K
 $120.12
            MAJESTY .
                                   /
                              1 K
 S120.13
            PRAISE
 S120.14
            VOICE
                             2 K
 S121.
            ABSTRACT
                             MODEM Updates for MDM7xx and Smartmodem (TM)
            -CATALOG.121
                           SUPER DIRECTORY Update released June 19, 1983
 S121.00
            MDM709
                           112K
                                   Latest version of MDM7xx
 S121.01
                     .LBR
                             7 K
            MDM709C+.AQM
 S121.02
                             42 K
                                   Adds features including .LBR
                     . AQM
 S121.03
            SD-48A
                             73K
                                   Smartmodem modem program
 S121.04
            SMODM52E.LBR
                                     ZCPR2 for the 8080 Processor
            Volume 122
 S122.
                                    released
                                                 June 29, 1983
 $122.00
            -CATALOG.122
                     .IDX
                                index of SIG/M vols 98-108
 S122.
            -ZCPR2
                             71K
                                   Programs and information necessary
 S122.01
            DU2-8080.ASM
 S122.02
            DU2-8080.COM
                             10K
                                   to run ZCPR2 on 8080 processor.
                            35K
 S122.03
            HELP8080.ASM
                                   Z80 ZCPR2, documentation files
 S122.04
            HELP8080.COM
                             3 K
                                   and all other programs needed to
 S122.05
                             25K
                                   implement this modification can
            LRUN8080 ASM
                                   be found on SIG/M Volumes 98-108.
                             2 K
 S122.06
            LRUN8080.COM
                             57 K
                                   /
 S122.07
            ZCPR8080.ASM
                             3 K
 S122.08
            ZCPR8080.DOC
 S123.
                                Miscellaneous LBR and other files
            Volume 123
 'S123.00
            -CATALOG.123
                             SIG/M Volume 123 released July 5, 1983
 S123.01
            6502DASM.LBR
                             11K
                                   6502 disassembler
 S123.02
                            28K
                                   Fun and games
            ALIENS11.LBR
 S123.03
            FIND-20 .LBR
                             11K
                                   String finding utility
 $123.04
            INKEY
                     .REL
                             1 K
                                   Inkey improvement for BASCOM
 S123.05
            INKEY
                     .Z80
                             3 K
 5123.06
                             4K
                                   16 bit math for 6805
            MATHLIB .ASM
                                   16 bit math for 8048
 S123.07
            MATHLIB .SRC
                             11K
 S123.08
                                   16 bit math for Z80
            MATHLIB .Z80
                             3 K
 $123.09
                     . LBR
                             47 K
                                   Simulation model
            ODMP
 $123.10
                                   IEEE mnemonics with XASM05
            OPSYN
                     .ASM
                             2K
 S123.11
            SORTUSER.BQS
                             3 K
                                   Sorts bulletin board users
 5123.12
            XFORMER .BQS
                            13K
                                   Transformer design
 $123.13
            XMODEM74.LBR
                             80 K
                                   Xmodem update
 S124.
                                     ZCPR2 AND SYSLIB UPGRADES
            Volume
                      124
 $124.00
            -CATALOG.124
                               Vol 1 of a 2 vol upgrade released Jul 11,83
 S124.
            ZCPR2
                     .IDX
                                     index of SIG/M ZCPR2 volumes
 5124.01
            COMMENT
                     .COM
                             1 K
                                   ZCPR2 upgrade modules
 S124.02
            COMPARE
                    .HLP
                             7 K
                     .COM
 S124.03
            ECHO
                             2 K
 S124.04
            GENINS
                     .COM
                             14K
 S124.05
            MENU8080.COM
                             3 K
 $124.06
            PAGE
                     .COM
                             8 K
                     .COM
 S124.07
            PATH
                             5K
S124.08
            PHELP
                     .COM
                              8 K
 S124.09
            PRINT3
                     .COM
                             8 K
 S124.10
                     .COM
                             2K
            SAK
 S124.11
            SYSLIB
                     .HLP
                            15K
 5124.12
            SYSLIB
                     .REL
                            14K
                     .COM
 5124.13
            TINIT
                             5K
 S124.14
            UPGRADE .DOC
                            18K
                                   Documentation for this upgrade
 $124.15
            Z2ALT
                    .HLP
                             28K
```

```
ZCPR2 SYSLIB UPGRADES Vol 2 of a 2 vol upgrade
            ABSTRACT.125
 S125.
            -CATALOG.125
                             SIG/M Volume 125 released
                                                             July 11, 1983
 $125,00
                                      index of SIG/M ZCPR2 volumes
 S125.
            ZCPR2
                     .IDX
                     .COM
                                      unsqueze program
 $125.00
            usa
                     . MQC
                              5K
                                    ZCPR2 upgrade modules
 S125.01
            COMMENT
                     . MQC
                              4K
            ECHO
 S125.02
                             31K
                     . MQC
 $125.03
            GENINS
                             16K
            MENU8080.MQC
 S125.04
                              6 K
 $125.05
            PAGE
                     . MQC
                             21 K
                     .MQC
 S125.06
            PHELP
                             20 K
 S125.07
            PRINT3
                     . MQC
                              6 K
 S125.08
            SAK
                     .MQC
                     . MQC
                             20K
            SDIR
 S125.09
                     . MQC
 S125.10
            SEPRINT
                              1 K
                              2K
                     . MQ.C
 S125.11
            SEPSTR
 S125.12
            SVERSION.MQC
                              1 K
 $125,13
            SYSTEST2.MQC
                              3 K
 S125.14
            TEMPLATE.MQC
                             12K
                              9 K
            TINIT
                     . MQC
 S125.15
            ZCPR2-KP.LBR
                             13K
                                    ZCPR2 for the Kaypro II
 S125.16
            ZCPR2-MD.LBR
                             25K
                                    ZCPR2 for the Morrow MicroDecision
 S125.17
                               ROFF4, V1.50 Text Formatter
            ABSTRACT.126
 S126.
                                                           August 1, 1983
 S126.00
            -CATALOG.126 SIG/M Volume 126 released
 S126.01 BPTEST
                            1 K
                                 Test formatter capable of maximizing
                            1 K
 S126.02 DIO
                   . H
                                 printer capability. Special symbols
 S126.03 EQN
                            1 K
                                 or fonts can be defined. Can create
 $126.04 EXY1
                            1 K
                                 super and subscripts and backspace
                                 on most printers. "Preprocessor"
                            1 K
 S126.05 EXYDEMO
                   .SUB
                                 directives can be used to merge stock
 $126.06 FOOT
                            1 K
 S126.07 FORM
                            1 K
                                 phrases, boiler plate, make macro
                   .COM
 S126.08 L2
                           17K
                                 definitions, automate numbering,
 S126.09 LIST
                                 create footnotes, table of contents, etc.
                            1 K
 S126.10 MATRIX
                            1 K
 S126.11 MX
                            6 K
                   .C
 $126.12 NDIO
                            5K
 S126.13 NEST
                            1 K
 S126.14 PAGES
                            2 K
                   .C
 S126.15 ROFF4
                           12K
 S126.16 ROFF4
                   .COM
                           30K
 S126.17 ROFF4
                   .CRL
                            7 K
                   .DOC
 S126.18 ROFF4
                           31K
 S126.19 ROFF4
                   . H
                            9 K
 S126.20 ROFF4
                   .SUB
                            1 K
 S126.21
         ROFF 41
                   .C
                            7 K
 S126.22 ROFF41
                   .CRL
                            4K
 S126.23 ROFF42
                   . C
                            7 K
 S126.24 ROFF42
                   .CRL
                            5K
                   .C
 S126.25 ROFF43
                            5 K
 S126.26 ROFF43
                   .CRL
                            4K
 S126.27 ROFF44
                   .C
                            6 K
 S126.28 ROFF44
                   .CRL
                            4K
                   .C
 S126.29 ROFF45
                            8 K
 S126.30 ROFF45
                   .CRL
                            4K
                     .C
 S126.31
            ROFF 46
                              8 K
 S126.32 ROFF46
                   .CRL
                            5K
S126.33 ROFF47
                   .C
                            8 K
 S126.34 ROFF47
                   .CRL
                            5K
 S126.35 SCI
                   .ASM
                            4K
                   .COM
 S126.36 SCI
                            2K
 S126.37 STACKTST.
                            1 K
```

ABSTRACT.127 Communication and Disk File Program, SAP Update

Autust 1, 1983

SIG/M Volume 127 released

\$124.16

S127.

S127.00 -CATALOG.127

ZCPR2-OZ.LBR

14K

ZCPR2 for Osborne-1

```
S127.01 COMM7
                 .DQC
                        25K
                              Full feature communication program using
                 .HQS
                        16K
                              Christiansen protocol for file transfer.
S127.02 COMM7
                        26 K
S127.03 COMM723 .AQM
                        34K
S127.04 COMM723A.AQM
S127.05 COMM723B.AQM
                        17K
                        17K
S127.06 COMM723C.AQM
                        28K
S127.07 COMM723D.AQM
S127.08 COMM7CAL.AQM
                         6 K
                         2 K
S127.09 COMM7CAL.COM
                        34K
S127.10 DISK76C .AQM
                              Copies, renames, logs, deletes & classifies
         DISK7
                 .COM
                         4K
                             disk files. 8 bit verification.
S127.11
                 .COM
                              Assembler for use with disk
S127.12 LASM
                         6 K
                .DQC
S127.13 LASM
                         3 K
                         8 K
                              Updates Sort and Pack
S127.14 SAP36
                 . AQM
S127.15
         SAP
                 .COM
                         2K
                           Bulletin Board Software Upgrades
        ABSTRACT.128
S128.
S128.00 -CATALOG.128
                           XMODEM for UNIX and VAX/VMS rel Sept 9, 1983
S128.01 BYE72K
                . AQM
                              Upgrade of Bulletin
                        38K
S128.02 ENTRBBS .BQS
                        21 K
                              Board software from
                        6 K
                              Software Tools of
S128.03 EXITRBBS.BQS
S128.04 GOODBYE .
                         1 K
                              Australia
                        26 K
S128.05 MINIRBBS.BQS
S128.06 TIMEOUT .BQS
                         5K
                        11K
S128.07 UTIL
                .BQS
S128.08 CALLERS .
                        OK
                              Dummy files for Minirbbs
S128.09 COUNTERS.
                         OK
                              /
S128.10 LASTCALR.
                         OK
                              /
S128.11 SUMMARY .BBS
                        OK
                . LBR
                        68K
                              XMODEM for UNIX
S128.12 UMODEM
                        43 K
                              XMODEM for VAX 11/750 and 780
$128.13 XMODEM
                 . LBR
                        dBASEII ORDER AND INVENTORY PROGRAM
S129.
        ABSTRACT.129
S129.00 -CATALOG.129
                        JRT PASCAL USER GROUP VOL 1 rel Sept 9, 1983
S129.01 DB2SIG/M.LBR
                       180K
                              A complete dBASEII (TM) order
                              and inventory program. Covers orders for
                              and inventory of SIG/M Vols 1 to 136.
                              When order is entered program advises
                              if in stock or backordered and makes
                              appropriate adjustment to inventory.
                              Prints invoices, shipping labels,
                              disk labels, various reports. Includes
                              FASTBASE (TM) search program which
                              locates any string in any field in
                              all records. Automatic date verification.
                              CompuPro time and date verification. Runs
                              on both CP/M and CP/M 86. Etc.
        JRTPAS-1.LBR
                        45K
                              A comprehensive set of JRT Pascal routines
                              including those in Dr. Wirth's USER MANUAL
                              AND REPORT.
                              To extract the above files you will need
                              LU.COM available on SIG/M Vol 119.
                              TO use LU - type LU
                              TYPE -O at the prompt to open a file
                              TYPE the name of the .LBR file
                              TYPE -L to list the items in the file
                              TYPE -E *.* to extract all files
                              (make sure you have room on the disk
                               - or else extract part at a time.]
                               TYPE -C to close the file
                               TYPE ^C to exit.
                               (LU requires 18K and we just did not have
                               enough room to add it to this disk)
```

S130. ABSTRACT.130 "SIGNON" System of programs for RCP/M Usage S130.00 -CATALOG.130 SIG/M 'olume 130 rel Settember 9 1983

```
S130,01 1100
                   .SSB
                           2 K
                                Subroutine files for use with SIGNON
                           1 K
                   .SSB
 S130.02 1300
                           1 K
                                /
 S130.03 1400
                  .SSB
                           1 K
                                /
 S130.04 1600
                   .SSB
 $130.05 200
                  .SSB
                           2K
                  .SSB
                           2K
                                /
 $130.06 2100
                           1 K
 $130.07 2300
                  .SSB
                                /
                           ЗК
 $130.08 2500
                  .SSB
                                /
                  .SSB
                           1 K
 $130.09 3000
                           1 K
 $130.10 3100
                   .SSB
                  .SSB
                           1 K
 S130.11 3300
                  .SSB
                           2 K
 $130.12 400500
 $130.13 4900CBBS.SSB
                           2 K
 S130.14 4900RBBS.SSB
                           1 K
                  .SSB
                           1 K
                                /
 S130.15 600
                  SSB
                           1 K
                                1
 S130.16 7800
                                /
                  .SSB
                           1 K
 S130.17 800
                  .SSB
                           2K
 S130.18 8000
                           1 K
                                /
 $130.19 8100
                  .SSB
                  .SSB
 $130.20 9100
                           1 K
 S130.21 BYECMD
                  .BAS
                           4K
                                exit program
                           1 K
                  . MAC
 S130.22 BYEX
                                subroutine
                                sysop's system configuration program 2
                           8K
 S130.23 CNFG1
                  . BAS
                  .BAS
                          10K
 $130.24 COMGR
                                sysop's comments manager program
 S130.25 COMPILE .SUB
                           1 K
                                submit file for compiling a .BAS file
                  .BAS
 S130.26 CONFIG
                          21 K
                                sysop's system configuration program
                  .CMN
 S130.27 CONFIG
                           1 K
                                configuration program routines
 S130.28 CONVRBB .BAS
                          18K
                                program to convert RBBS files
                  .DOC
                           4K
 S130.29 CONVRBB
                  .MAC
                           1 K
 S130.30 DRIVER
                                subroutine
                           6 K
                                exit program
 $130.31 FINISH
                  .BAS
 S130.32 JOB
                           1 K
                                submit file used with SSUB to batch jobs
                  .SUB
 S130.33 LOADRIVE.SUB
                           1 K
                                submit file
S130.34 MAKELIB .SUB
                           1 K
                                submit file
 S130.35
                MFIL
                         . BAS
                                       program to make necessary data files
 $130.36 POSYS
                  .BAS
                          18K
                                sysop's general utility
 $130.37 SELDSK
                          . 1K
                  . MAC
                                subroutine
 S130.38 SETFMD
                  . MAC
                           1 K
                                subroutine
 S130.39 SIGNMODS.DOC
                           2 K
                                documentation
 S130.40 SIGNON
                  .BAS
                          16K
                                main program
 S130.41 SIGNON
                  .DOC
                          32K
                                documentation
                  .MAC
 S130.42 TMOD
                           3 K
                                clock module interface program
                  . MAC
                                clock module for QT clock
 S130.43 TMODQT
                           3 K
                                clock module for Scitronics clock
 S130.44 TMODSCI
                  . MAC
                           5 K
 S130.45 TMODTEST.MAC
                           5K
                                tests tmod function
 S130.46 TOS
                  . BAS
                           3 K
                                time on system program
 S130.47 USERMD
                  . MAC
                           1 K
                                subroutine
 S130.48 USRMAINT.BAS
                           9 K
                                sysop's user file maintenance program
         SIG/M Volume 131 ABSTRACTS FROM PASCAL Z USER GROUP VOL 23
 S131.
 S131.00 -CATALOG.131
                          cont of SIG/M Volume 131 rel Sept 9, 1983
 S131.01 ALPH2INT.PAS
                           4K
                                returns integer value of string
 $131.02 BEEP
                           1 K
                                procedure to ring bell
                  .SRC
 S131.03 BLNKSCRN.SRC
                                procedure to blink
                           1 K
 S131.04 CASELIB .PAS
                           2K
                                function to turn lower to upper case
 $131.05 CHARIN
                  .SRC
                           1 K
                                procedure to input char.
 $131.06 CHROUT
                           1 K
                                procedure to output char.
                  .SRC
 S131.07 CLOCK
                                calendar clock master program
                  .SRC
                          11K
3131,08 CLRHOM
                  .SRC
                           1 K
                                proc. to clear screen & home cursor
 S131.09 CMPTXT
                  .SRC
                           2 K
                                proc. to compare two ASCII strings
 S131.10 CONFINE .PAS
                                proc. that returns standard deviation
                           1 K
                  .SRC
 S131.11 DATE
                                uses clock board
                           2K
 S131.12 DATENTIM.PAS
                                prints date from Godbout SSI board
                           3 K
 S131.13 DATENTIM.SRC
                           5K
 S131.14 DECOMPOS.PAS
                                matrix function
                           3 K
 9131 15 DRVLOG
                 SRC
                           JK
                                 ine da mines lonced drive
```

```
.SRC
                          2 K
                               routine to get text from console
$131.16 GETEXT
                 .SRC
                          2K
S131,17 HEXOUT
                               hex print to console from program
                          1 K
S131.18 INITSEED.
                               procedure to get seed by calling "Time"
S131.19 KARET
                 .SRC
                          1 K
                               outputs CR/LF to console
                 .SRC
                          2K
                               checks keyboard, returns with ASCII in A
S131.20 KBDIN
                               procedure to use "HIPAD" to print oversize
                          3 K
S131.21 LEVEL
                 .PAS
S131.22 LEVEL
                          7 K
                 .SRC
                          2 K
                                   function to read port of light pen
S131.23 LITEPEN
                 .SRC
                 .PAS
                          2 K
                                 determines median value of list
S131.24 MEDIAN
                          4K
$131.25 MEDIAN
                 .SRC
                          2K
S131.26 MESIJ
                 .SRC
                               prints message to console
                          1 K
S131.27 MNANDVAR.PAS
                               procedure to get mean/variance
                          2 K
                               changes date from integer to strings
S131.28 NAMEDATE.PAS
                          5K
S131.29 NAMEDATE.SRC
                 .PAS
                          4K
                               X Y plots
S131.30 PLOT
                          5K
                               reads "HIPAD"
S131.31 POINT
                 .SRC
                          9 K
S131.32 POPSTATS.PAS
                               calculates mean, mode, etc.
S131.33 POPSTATS.SRC
                         25K
                          6 K
                               updated QQSORT
S131.34 QQSORTR .PAS
                               reads console w/o waiting for CR
S131.35 READQ
                 .SRC
                          1 K
S131.36 READREAL.PAS
                         10K
                               flexible proc. for console input
                               Knuth random generator method
S131.37 RNDKNUTH.LIB
                          7 K
S131.38 SELECT
                          5K
                 .PAS
                               function to partially sort array
                           11K
S131.39
           SELECT
                    .SRC
S131.40 SMOOTH9 .PAS
                          2K
                               smooths 9 points of data
                               reads a stream from "HIPAD"
S131.41 STREAM
                 .SRC
                          5K
S131.42 TIME
                 .SRC
                          2 K
                               reads clock digit
                          7 K
                               median test
S131.43 TSTMEDN .PAS
                          2K
S131.44 TSTQSORT.PAS
                               Qsort test
S131.45 USEPLOT .PAS
                          2 K
                               used as shell to plot
S131.46 USEWLREG.PAS
                          3 K
                               tests plot procedures
S131.47 WAVE
                 .SRC
                          5K
                               fill array from Hipad in stream mode
S131,48 WEEKDAY
                 .PAS
                          1 K
                               function to change date to day
S131.49 WEEKDAY
                 .SRC
                          1 K
                 .PAS
$131.50 ZELLER
                          2 K
                               returns time between dates
S131.51 ZELLER
                 .SRC
                          3 K
S132.
        ABSTRACT.132
                           PASCAL Z USER GROUP VOLUME 24
S132.00 -CATALOG.132
                         SIG/M Volume 132 released
                                                       September 9, 1983
$132.01 BIOMO
                 .PAS
                          9 K
                               monthly bio-graf
S132.02 CHECKS
                 .PAS
                         26 K
                               updates NOW with on-line code changes
S132.07 EXAMPL
                 .CHK
                          1 K
S132.08 EXAMPL
                 .DOC
                          6 K
S132.09 EXAMPL
                 .NAM
                          2 K
S132.04 DEL
                 .COM
                          1 K
                               file delete program
S132.05 EPSON
                 .COM
                          8 K
                               Epson printer program
S132.06 EPSON
                 .PAS
                          3 K
S132.12 LS
                          8 K
                 .C
                               directory listing program
S132.13 LS
                 .COM
                          8 K
S132.14 LS
                 .DOC
                          2 K
S132.15 PROM
                 .FIL
                         18K
                               illustrates how prom burner works
S132.16 QUIZ
                 .TXT
                          2 K
                               test
S132.17 QUIZANS
                 .TXT
                          3 K
S132.18 READCMD
                 .DOC
                          5K
                               program to handle arguments in a
                 .P
S132.19 READCMD
                          8 K
                               command tail
S132.20 READCMD
                 .REL
                          3 K
S132.10 GETNUMS .P
                          4K
S132.11 GETNUMS
                .REL
                          1 K
S132.25 TESTCMD
                 .COM
                         14K
S132.26 TESTCMD .PAS
                          4K
                               1
S132.03 CTOI
                 .REL
                          1 K
S132.21 ROTATE
                 .BAS
                          3 K
                               letter game
                 .COM
S132.22 ROTATE
                         13K
S132.23 STUDENT
                 .COM
                         19K
                               keep student grades
S132.24 STUDENT
                 .PAS
                         20 K
S132.27 TRACER
                 .AZM
                         11K
                               trace execution of Z80
                                                         rorram
```

```
.DOC
                          2 K
S132.28 TRACER
                 .COM
                          9 K
                                writes up to $9,999.99
5132.29 WRITNUM
                          ЗК
S132.30 WRITNUM
                 .PAS
S132.31 ZDUMP
                  . COM
                          9 K
                                dump program with a variety of
                  .PAS
S132.32 ZDUMP
                          6 K
                                options
                          PASCAL Z USERS GROUP VOL 25
        ABSTRACT.133
S133.
                         SIG/M Volume 133 released
                                                        September 9, 1983
S133.00 -CATALOG.133
                         24K
                                converts metrics
S133.01 METRICS .COM
S133.02 METRICS .PAS
                         15K
                         23 K
                                extended precision floating point
S133.03 BASICOPS.PAS
S133.04 BYTEOPS .REL
                          1 K
                           8 K
S133.05
         BYTEOPS .SRC
S133.06 FLPTCONS.PAS
                          1 K
                                1
S133.07 FLPTDEMO.COM
                         28K
                          3 K
                                /
S133.08 FLPTDEMO.PAS
                          2 K
S133.09 FLPTEXT .PAS
S133.10 FLPTPACK.DOC
                          7 K
                          1 K
S133.11 FLPTTYPE.PAS
S133.12 FLPTVAR .PAS
                          1 K
                         19K
S133.13 EDITFEED.COM
                                designs a balanced cattle feed ration
S133.14 EDITFEED.PAS
                          5K
                         16K
                                /
S133.15 EDITFILE.COM
                          9 K
S133.16 EDITFILE.PAS
S133.17 FEED
                  .DAT
                          5K
S133.18 FEEDLOT
                 .Doc
                         11K
                  .PAS
                          4K
S133.19 BUILDF
                                /
S133.20 INITIAL .PAS
                          2 K
S133.21 LINEAR
                         24K
                  .COM
                  .PAS
                          8 K
S133.22 LINEAR
S133.23 LINTEST
                 .DAT
                          2 K
                               /
                 .PAS
                               /
S133.24 MODIFYF
                          4K
S133.25 PRINT
                 .PAS
                          2 K
S134.
        ABSTRACT.134
                           PASCAL Z USERS GROUP VOL 26
S134.00 -CATALOG.134
                         SIG/M Volume 134 released
                                                        September 9, 1983
S134.01 ANIMALS .COM
                         26 K
                                animal guessing game without
S134.02 ANIMALS .PAS
                         41 K
                               prior "bugs"
S134.03 BEASTS
                          1 K
                  .QQQ
S134.04 BEASTS
                  .QQX
                          1 K
S134.05 BINTOHEX.PAS
                          2K
                               converts binary to hex
                          3 K
S134.06 HEXTOBIN.PAS
S134.07 CHECKS
                 .COM
                          9K
                                checkbook program
S134.08 CHECKS
                  .DOC
                         20 K
$134.09 CHECKS
                 .Z80
                         53 K
S134.10 EXAMPL
                 .CHK
                          1 K
S134.11 EXAMPL
                  . DOC
                          6 K
5134.12 EXAMPL
                 . NAM
                          2K
S134.13 CLEAN
                  .PAS
                          9 K
                                filters characters to printer
S134.14 CLEANPRT.PAS
                          5K
                                                                             103/4/00m
S134.15 MACRO
                  .SRC
                          4K
                               collection of macros
S134.16 DRVCHK
                 .PAS
                          2K
                               procedure to check filename drive
S134.17 GETFILES.PAS
                          2 K
                                procedure to get files
S134.18 CONVERT .DOC
                          2K
                               converts numbers between string
S134.19 GLOBALS .INT
                          1 K
                               and real and integers to string
S134.20 GLOBALS .RN$
                          2 K
S134.21 PASZCODE.INT
                               /
                          4K
S134.22 PASZCODE.RN$
                         10K
S134.23 PROFILE .REL
                          1 K
                               Hipad routine to fill array
S134.24 PROFILE .SRC
                          8 K
S134.25 TP
                  .PAS
                          1 K
S134.26 TRIGLIB .PAS
                          4K
                               seven trig functions
S134.27 TSTAN2
                 .COM
                         14K
                                converts regression coefficient
5134.28 TSTAN2
                 .PAS
                          1 K
                                to slope angle
        ABSTRACT.135
S135.
                           SOFTWARE TOOLS OF AUSTRALIA - VOL 17
```

```
SIG/M Volume 135 released
S135.00 -CATALOG.135
                                                         September 1,1983
           DIR-DUMP.ASM
S135.01
                                 Displays disk directory formatted
                          2 K
                               for 64 col. screen
S135.02 DIR-DUMP.DOC
                          1 K
S135.03 DIR-DUMP.OBJ
                          5K
                               Exit from CP/M to comms program (8251 UART)
S135.04 EXTCOM1 .ASM
                 . MAC
                         14K
S135.05 INF
                               Comprehensive disk format display
                          2K
S135.06 INF
                 .OBJ
S135.07 ITOH5000.ASM
                          8 K
                               Graphics driver for C.Itoh 8010
                 . C
                          8 K
                               Loader for machine language programs
S135.08 LD1
                 .DOC
                          2 K
S135.09 LOCK
                               'Locks' program for security
                        11K
S135.10 LOCK
                 .OBJ
S135.11 LOCK
                 .WPF
                        11K
                               /
                          1 K
                               /
S135.16 MKEY
                 .OBJ
                 . WPF
                          5K
                               /
S135.17 MKEY
S135.32 UNLOCK
                               /
                        11K
                 .OBJ
                 .WPF
                        12K
S135.33 UNLOCK
                 . CQ
                          6 K
                               Printer program - currently set for Epson
S135.12 LPR
                        14K
S135.13 LPR
                 .OBJ
S135.14 MFT50
                 .ASM
                        27 K
                               Multiple file transfer program
                          3 K
S135.15 MFT50
                 .OBJ
S135.18 PCAT
                 .BAS
                          6 K
                               Hardcopy catalog in master catalog system
                        12K
S135.19 POKER
                 . BAS
                               Beats you every time
                 .ca
S135.20 RELOC
                          6 K
                               Move a program to top of TPA and run it
                        19K
                 . DQC
S135.21 RELOC
                               /
S135.22 RELOC
                 . MQ.C
                         7 K
S135.23 RELOC
                 .OBJ
                        10K
S135.24 RELOC
                          1 K
                 .REL
                          1 K
                               /
S135.25 RELOC
                 .SUB
                 .TXT
                               1
S135.26 RELOC
                          2 K
                               /
S135.27 SPR2
                 .OBJ
                          1 K
S135.28 SRP1
                 .OBJ
                          1 K
                               /
                 .SUB
S135.29 TEST
                          1 K
S135.30 TEST1
                          4K
                               /
                 . MQC
S135.31 TEST2
                 . MQC
                          2 K
S135.34 WPF
                 .C
                          2 K
                               Translate .WPF files to conventional
S135.35 WPF
                          6 K
                 .OBJ
                               format
S136.
        ABSTRACT.136
                           BIG-BOARD utilities, modem patches, LISP doc.
S136.00 -CATALOG.136 Software Tools of Australia Vol 18, rel Sept 9,83
S136.01 BB-VIDEO.MOD
                          1 K
                               Video mod. for BIG-BOARD
                 .ASM
S136.02 BBSCAN
                          7 K
                               Disk integrity verifier for BIG-BOARD
S136.03 BBSCAN
                 .DOC
                          4K
S136.04 BIGBDFMT.ASM
                          7 K
                               Disk formatting program for BIG-BOARD
S136.05 BIGBDFMT.DOC
                          1 K
S136.06 BIGBDFMT.OBJ
                        1 K
S136.07 DATMODH .AQM
                        29K
                               MODEM7A configured for DATAMAX
$136.08
         FFC
                  .ASM
                         12K
                               Bill Earnest's FAST copy for BIG-BOARD
S136.09 INDEX
                 .YA2
                         2 K
                               Yam disk index
                               How long to go
S136.10 LIFSCORE.BAS
                        17 K
S136.11 LISP
                 .WPM
                          3 K
                               Documentation for LISP interpretor, 8080
S136.12 MOD4BB1A.OBJ
                          4K
                               MODEM4 configured for BIG-BOARD
$136.13 MODEMH
                 . DOC
                          5K
S136.14 OZDEM
                 .ASM
                          4K
                               MODEM7 patch for OSBORNE 1
S136.15 PATCH
                 .YAM
                          2 K
                               YAM patch to disable system file access
$136.16 REMOTE
                 .DOC
                          3 K
                               Construct. details for remote SORCERER keybd
S136.17 SORMODH .AQM
                        29K
                               MODEM7 configured for SORCERER
5136.18
             TRANSLAT.DOC
                              2 K
                                   BIG-BOARD keyboard translation
S136.19 TRANSLAT.Z80
                          5K
S136.20 YAMB9
                 .CRL
                         1 K
                               YAM8 & YAM9 combined for BDS C v1.46
S136.21 YAM89
                 .CSM
                          5K
$136.22 YAMKAP
                 .OBJ
                        27 K
                               YAM modem program for KAYPRO II
S136.23 YAMOSB
                 .OBJ
                               YAM modem program for OSBORNE 1
                        25K
S136.24 YAMSAN
                 .OBJ
                        25K
                               YAM modem program for SANYO MBC-1000
        BLDG ENERGY DESIGN ANALYSIS-Calif Energy Comm Vol 1 of 2
S137.
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S13/. BLDG ENERGY DESIGN ANALYSIS-Calif Energy Comm Vol 1 of 2 S137.00 -CATALOG.137 cont of SIG/M Volume 137 rel Se t 7 1983

```
S137.01 MP
                            9 K
                                 MICROPAS 1.0 - A Microcomputer
                    . CQM
                            1 K
                                 Program for Building Design
  S137.02 MP-CNTRL.SYS
                           18K
  S137.03 MP-EDIT .CQM
                                 Analysis. Can estimate the
  S137.04 MP-FORM .CQM
                           10K
                                 performance of conventional
                            9 K
                                 residential buildings as well
  S137.05 MP-GRAPH.CQM
                            1 K
  S137.06 MP-GRAPH.SIM
                                 as buildings incorporating
                           16K
                                 passive solar and natural
  S137.07 MP-INPUT.CQM
                            1 K
                                 cooling features. Simulates
  S137.08 MP-INPUT.DE1
                            1 K
                                 a full year in 20 minutes.
  S137.09 MP-INPUT.DE2
                            1 K
                                 Requires MICROSOFT BRUN.COM.
  S137.10 MP-INPUT.DE3
                            2K
  S137.11 MP-INPUT.DE4
                            1 K
  S137.12 MP-INPUT.DE5
                            1 K
  S137.13 MP-INPUT.DE6
                            1 K
  S137.14 MP-INPUT.DE7
                            1 K
  S137.15 MP-INPUT.DE8
                            3 K
  S137.16 MP-INPUT.ED1
                            1 K
  S137.17 MP-INPUT.ED2
                            1 K
  S137.18 MP-INPUT.ED3
                            3 K
  S137.19 MP-INPUT.ED4
  S137.20 MP-INPUT.ED5
                            1 K
                            1 K
  S137.21 MP-INPUT.ED6
                            4K
  S137.22 MP-INPUT.ED7
                            1 K
  S137.23 MP-INPUT.ED8
                            1 K
  S137.24 MP-INSTL.DE1
                            4K
  S137.25 MP-INSTL.ED1
  S137.26 MP-INSTL.SYS
                            1 K
  S137.27 MP-MENU .CQM
                           15K
  S137.28 MP-OPTIM.CQM
                           17K
  S137.29 MP-OPTIM.INP
                            1 K
  S137.30 MP-OUTP .SI1
                            1 K
  S137.31 MP-OUTP .SI2
                            2 K
  S137.32 MP-OUTP .SI3
                            4K
  S137.33 MP-SIMUL.CQM
                           20 K
  S137.34 MP-SIMUL.IN1
                            2K
  S137.35 MP-SIMUL.IN2
                            OK
  S137.36 MP-SUMRY.CQM
                           16K
  S137.37 MP-TABLE.CQM
                           17K -
  S137.38 MP-WEATH.CQM
                           18K
  S137.39 MP-WEATH.INP
                            1 K
  S137.40 MPINTRO .DQC
                            5K
  S138.
            BLDG ENERGY DESIGN ANALYSIS-Calif Energy Comm Vol 2 of 2
  S138.00
                            cont of SIG/M Vol 138 rel Sept 7, 1983
            -CATALOG.138
                    .LBR
  S138.01 CZ
                          174K
                                 Weather data for vol 137
  S138.02 MP-DEMO .LBR
                           34K
                                 demo program - set for Drive B
  S139.
            Vol 139
                         MODEM UPDATE - MODEM 712
  $139.00
            -CATALOG.139
                            cont of SIG/M Volume 139 rel Oct 7, 1983
  S139.01 MDM712
                    .IQF
                            4K
                                 Latest version of MDM7xx
  S139.02 MDM712
                    . LBR
                          204K
X 5139.03 MDM712
                    .TXT
                            3 K
                                 /
  S139.04 MDM712
                    .uab
                            4K
  S139.05 UN
                    .COM
                            5K
                                 Recovers Basic-80 programs
  S139.06 UN-PROT
                   .BAS
                            2K
                                 Fix for Apple for UN.COM
  S140.
            Volume 140 Cross Assemblers and Misc. Utilities
  S140.00
            -CATALOG.140
                            cont of SIG/M Vol 140 rel October 7, 1983
  S140.01 68KASM
                    .FQR
                           42K
                                 68000 Cross assembler from Dr. Dobbs
S140.02 68KASM
                    . MQC
                            7 K
                    .ASM
  S140.03 CPU
                            4K
                                 Faster BDSC for 8085
  S140.04 SPEEDUP .C
                            7 K
  $140.05 ERROR
                    .FOR
                            2K
                                 Fortran-80 command switches & error codes
  S140.06 EXORCOPY.C
                           12K
                                 MOTOROLA mdos to CP/M data exchange utility
  $140.07 FILENAME.FQR
                            2K
                                 Fortran filename parser (German comments)
  $140.08 M6805
                    .LIB
                            8 K
                                 Macro Lib. of MOTOROLA MC6805 opcodes
  $140.09 REMAKE
                    .PLI
                            5 K
                                 Comuiler manager
```

```
2 K
                               MOTOROLA 6800 cross assembler
S140.10 OPCODES
                         1 K
                 .SYM
$140,11 EXBUG3
                               /
                 .C
                         17K
S140.11 SEG1X68
S140.12 SEG1X68
                 .OVL
                         6 K
                         10K
S140.13 SEG2X68 .C
                         5 K
S140.14 SEG2X68 .OVL
S140.17 X68
                 .02
                        17K
                         5 K
S140.18 X68
                 , H
                 .OBJ
                        15K
S140.19 X68
S140.15 SIMLT
                 .FQR
                         8 K
                               Solves simultaneous equations in fortran
                               Method to extend CP/M 2.2 system
S140.20 XTCPM141.AQM
                        26 K
                         2K
S140.21 XTCPM141.DQC
S140.22 Z80DISK .DOC
                         4K
                               Z80 Disk diagnostic, Dr. Dobbs April 1981
                        23 K
$140.23 Z80DISK .MAC
                         3 K
S140.24 Z80DISK .OBJ
         Vol 141 Kaypro, Osborne & Big Board Programs
S141.
S141.00
         -CATALOG.141
                         cont of SIG/M Vol 141 rel October 7, 1983
S141.01 BBDRIVER.ZQ0
                               IOS driver for Ferguson Big Board SBC
                         44K
S141.02 BBMODS
                 .DQC
                         7 K
                               Double Density and other mods for Big Board
                         42K
                               Modified monitor ROM for Big Board
S141.03 BBSYSTEM.ZQO
S141.04 BGMEMTST.AQM
                         2 K
                               Background memory test, Lifelines May 1981
                         6 K
S141.05 DISPPROM.BB
                               Big Board Character Generator ROM contents
S141.06 KAYMODEM.DOC
                         1 K
                               SMODEM37 set up for Kaypro 2
S141.07 KAYMODEM.OBJ
                        11K
S141.08 KPROMDM7.DOC
                         2 K
                               Documentation on MODEM7 for Kaypro 2
S141.09 KPROTERM.TXT
                         2 K
                               Information on Kaypro 2 terminal control
S141.10 MOD765BB.ASM
                        64K
                               MODEM765 for Big Board
S141.11 MOD765BB.OBJ
                         10K
S141.12 OSBDUMB .DOC
                         2 K
                               Dumb terminal program for Osborne 1
                        10K
S141.13 OSBDUMB .MAC
                               /
S141.14 OSBDUMB .OBJ
                         2 K
S141.15 OSBMBOOT.ASM
                         BK.
                               MBOOT31A for Osborne 1
S141.16 OSBMBOOT.DOC
                          1 K
S141.17
         OSBORNE .Z80
                          1 K
                                Pip patch for Osborne 1
S141.18 OSD
                 .DOC
                         2 K
                               Sort directory program (SD-42) for
S141.19 OSD
                 .OBJ
                         2 K
                               Osborne 1
S141.20 OSTRICKS.DOC
                         6 K
                               Various hints on Osborne 1 USART
                   Games from Software Tools of Australia-ExtractS
S142.
         Vol 142
$142.00
         -CATALOG.142
                         cont of SIG/M Volume 142 rel Oct 7, 1983
S142.01 ALMAZAR .BAS
                         2 K
                               Adventure game from Micro-80
S142.02 ALMAZAR .DOC
                         2K
S142.03 SFA/SAV .0
                         1 K
S142.04 SFALDES .0
                         9 K
                               /
S142.05 SFALDES .BAS
                         7 K
S142.06 SFAMAIN .BAS
                         15K
S142.07 SFAMOVE .0
                         2 K
S142.08 SFAMOVE .BAS
                         2K
S142.09 SFAOBDES.0
                         2 K
S142.10 SFAOBDES.BAS
                         2 K
S142.11 SFARESP .0
                        13K
S142.12 SFARESP .BAS
                         5K
                 .0
S142.13 SFAVOC
                         1 K
                 .BAS
S142.14 SFAVOC
                         1 K
S142.15 AUSOPOLY.BAS
                        28K
                               English/Australian of CPMUG game
S142.16 BACARRAT.BAS
                         4K
                               Osborne MBASIC game
S142.17 BANNER
                 .Z80
                         19K
                               Prints banner to console & printer
S142.18 BLAKJACK.BAS
                         12K
                               Osborne MBASIC game
S142.19 FOGASM
                 .ASM
                         1 K
                               Calculates number of years of schooling
S142.20 FOGINDEX.PLI
                         3 K
                               required to read a document
S142.21 GOLDMINE.BAS
                               MBASIC game
                         8 K
$142.22 KPR02-SW.BAS
                         10K
                               Spacewar game for Kaypro 2, MBASIC
S142.23 MAKEADV .BQS
                         6 K
                               Make your own Adventure
S142.24 SAMPADV .AQV
                          8 K
S142.25 SAMPADV .MQC
                          9 K
```

```
S142.26 OZDOT
                   .BAS
                            8 K
                                  Osborne version of DOTS
                            4K
                                 PACMAN game for cursor addressable
  S142.27 PACMAN
                   .ASM
                            4K
  S142.28 PACMAN
                   .DAT
                                  terminals
  S142.29 PACMAN
                   .OBJ
                           16K
  S142.30 SPACEWAR.BAS
                           11K
                                 Osborne MBASIC game
                   .BAS
                            2 K
                                  "My other computer is an IBM" for Osborne
  S142.31 YKW1
                            2K
                                  "My other computer is an IBM" for ADM-31
  S142.32 YKW2
                   .BAS
            Vol 143 Packet Radio, Printer Utilities, Software Tools of Australia (e.
  S143.
                            cont of SIG/M Volume 143 rel Oct 7, 1983
  $143.00
           -CATALOG.143
                                 Electronic attenuator design utility
  S143.01 ATTEN
                   . BAS
                   .BAS
                            3 K
  S143.02 DEPREC
                                 Depreciation schedult
  S143.03 GENINDEX.OBJ
                           20 K
                                 Generates index for WordStar text file
                           12K
  S143.04 GENINDEX.PAS
                            1 K
                   .PAS
  S143.05 INDEX
                            5K
 75143.06 INDEX101.DQC
                                 WordStar indexing utility
 $143.07 INDEX101.0BJ
                           11K
                            9 K
                                 Print program for MX80, wildcard names
  S143.08 LPR
                   . C
                   .OBJ
  S143.09 LPR
                           14K
                   .PQS
                                 Packet Radio Software for CP/M Systems
  S143.10 DGPTR
                            7 K
                           25K
  S143.11 PACKET
                   .AQM
                   .DOC
                            6 K
                                 /
  S143.12 PACKET
                                 /
                           12K
  S143.13 PACKET
                   .RPT
                             3 K
  S143.14
           PACKET-0.DOC
  S143.15 PACKET2 .TXT
                           14K
  S143.16 PACKETCF.TQT
                           15K
  S143.17 PRINTER .INF
                            2K
                                 Control codes for EPSON MX80 printer
                            1 K
                                 FORTRAN routine to access CP/M RDR and PUN
  S143.18 RDRPUN
                   . MAC
                           13K
                                 Example of MP/M 2 Resident XIOS
  S143.19 RESXIOS .AQM
  S143.20 SETMX
                   .. AQM
                            4K
                                 Epson MX80 printer setup utility
                   .DOC
                            2K
  S143.21 SETMX
                   .ASM
  S143.22 SETOK
                            6 K
                                 Okidata printer setup utility
  S143.23 SETOK
                   .Doc
                            2K
  S143.24 VIDEO
                            3 K
                                 Video terminal codes
                   .INF
  S143.25 VIDEONEW.INF
                           13K
           Vol 144 Misc Programs-Software Tools of Australia and others
  S144.
  $144.00
           -CATALOG.144
                            cont of SIG/M Volume 144 rel October 7, 1983
                   .REL
  S144.01 GRAPH
                            1 K
                                 Graph subroutines for Epson MX80
  S144.02 GRAPH
                   .ZQD
                           11K
  S144.03 IZ
                   . CQM
                           22 K
                                 Intel to Zilog mneumonic source
  S144.04 IZ
                   .DQC
                           11 K
                                 code translator
  S144.05 IZ
                   . DQT
                            7 K
  S144.07 IZ
                           14K
                   .PQS
  S144.07 MAKEFILE.ASM
                            6 K
                                 Builds a dummy file with marked blocks
  S144.08 MAKEFILE.COM
                            2 K
  S144.09 NESTING .C
                                 Notes on nesting in BDS C from version
                            1 K
  S144.10 NESTING .NOT
                            3 K
                                 1.45a
 S144.11 PMDLALDS.FRG
                           13K
                                 Autodialing with PMMI
 S144.12 RENAME
                   . C
                            8 K
                                 Wildcard rename utility
                   . DOC
  S144.13 RENAME
                            4K
                                 /
                   .OBJ
 S144.14 RENAME
                           10K
                   . H
 S144.15 BDOS
                            1 K
  S144.16 SETBOOT
                   .MAC
                           19K
                                 Osborne 1 boot
 S144.17 SQ
                   .ca
                            8 K
                                 Update to squeeze, wildcards and other
/ S144.18 SQ
                   . H
                            2 K
                                 features
  S144.19 SQ
                   .OBJ
                           17K
                                 /
  S144.20 SQ15A
                   . DOC
                            2 K
                                 /
S144.21 SQ15A
                   .SUB
                            1 K
  S144.22 SQCOM
                   . H
                            1 K
                   .C
  S144.23 IO
                            1 K
                                 /
  S144.24
           LONG
                    . CQ
                             2 K
                                 /
                   .CQ
  S144.25 TR1
                            2 K
  S144.26 TR2
                   .ca
                            9 K
                                 Text transfer UCSD formatted disk to CP/M
  S144.27 UCSD2CPM.C
                           16K
                                 list director of UCSD Pascal disk
  $144.28 UCSDIR
                   . C
                           10K
```

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VFILER - SCREEN ORIENTED FILE MANIPULATION UTILITY
S145.
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                          1 K
                               bounder buffer problem, in ccp
S162.02 CCP
                 .001
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                               init overlay
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S162.04 CCP
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S162.06 CCP
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S162.07 CCP
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S162.08 CCP
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S162.09 CCP
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S162.10 COMPILE .ERL
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S162.11 COMPILE .PAS
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                               compiler iverlay source
S162.12 DINPHIL .CCP
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S162.13 GLOBAL
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                               global declarations - include file
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S162.18 MAKECCP .SUB
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S162.19 PLO
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S162.20 PLO
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$162.21 PLO
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S162.23 TEST
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S162.24 TRIO
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                               which tells the degree to which
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                               various articles meet your re-
S163.04 BIBSRCH .BAS
                          5K
                               quirements. See BYTE, March 1983
S163.05 CMPRBIB .BAS
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$163.06 PARMS
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                 .BAS
S163.07 VOCBLD
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$163.08 VOCLST
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S163.09 CBAS
                 .TST
                          1 K
                               Test MEMTEST function in CBASIC
S163.10 CBASTEST.ASM
                          1 K
S163.11 TEST
                 .BAS
                          1 K
S163.12 CLOSE
                 .COM
                         11K
                               Program to calture console I/O
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ASM
                          1 K
S163.13 CONS
                           1 K
S163.14
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                  .COM
                          1 K
S163.15 CONSGRAB.ASM
                  .BAS
                          8 K
                                Creates CBASIC data file
$163.16 CREATE
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                                Call directory in CBASIC
S163.17 DIR
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                                Direct console I/O
S163.18 DIRECTIO.BAS
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S163.19 DOW
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                          1 K
                                Gives track and sector info
S163.20 FINDCTL .BAS
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S163.21 GNMENU
                 . BAS
                                Skeleton database for use with
$163.22 GNMENU
                 .LIN
                          2 K
                                any straight and easy applica-
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                                tion
S163.23
        GNMENU
                  .XRF
S163.24 GNREPORT.BAS
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S163.27 GNSCREEN.BAS
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$163.31 SCREEN
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                          1 K
                                Demo of GET command in CBASIC
S163.33 NAD
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                                Name and Address database
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                                with mailing labels
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S164.02 FXT86
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S165.20 PAGREL
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9165.21 PAGREL
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S165.23 READREL .ASN
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S165.24 READREL .CMD
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S165.26 STUTE
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                                   data file for CARD.REC
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S167.03 CNVRT
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$167.06 FXT80
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                          1 K
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S167.07 FXT86
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S167.08 FXT86
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                          2 K
                              update to FXT86.ASM
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S167.11 PDL80
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$169.05 M7HP-1
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                           1 K
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                                        Main source module
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                                        Submit file to create ROFF4.COM
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                                         11
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                          5 K
                                59 60
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                          8 K
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                                     Α9
186.58
          ZEX
                     . AQM
                             31K
                                     A2
                                         41
                                              ZCPR3 ZEX files
186.59
          ZEX
                     .COM
                              6 K
                                     5E
                                         36
186.60
          ALIAS
                     .ZEX
                              2 K
                                     6 D
                                         BE
186.61
                                        2C
          ZEX
                     .ZEX
                               4K
                                     78
187.01
                                     9C
                                        58
                                              ZCPR3 HELP
          ALIAS
                     .HLP
                              5K
                                                            files
187.02
          CMDFILES.HQP
                                     94
                                        6 B
                             16 K
187.03
          COMPARE
                                        В6
                    .HLP
                              5K
                                     26
187.04
          DIRS
                     . HQP
                             13K
                                     D1
                                         3 A
187.05
          HELP
                     . HLP
                              1 K
                                     54
                                         CD
187.06
          HELPSYS
                    . HQP
                             19K
                                     08
                                        F5
187.07
          IF
                     .HQP
                                     2C
                                         84
                              8 K
187.08
          IO
                                     24
                                         2 E
                     . HQP
                              8 K
187.09
          MENU
                     .HQP
                             21 K
                                     2C
                                        55
187.10
          NDIRS
                     . HQP
                             10K
                                     49
                                        B2
187.11
                                     0F
                                         9 E
          SH
                     .HQP
                              9 K
187.12
          SYSRCP
                                     F6
                                         33
                     .HLP
                              6 K
187.13
          Z3RES
                     .HLP
                              8 K
                                     80
                                         0 E
                                        25
187.14
          Z3TCAP
                                     9 D
                     .HQP
                             23 K
187.15
          Z3UTIL1
                     . HQP
                             20 K
                                     51
                                         A3
187.16
                    . HQP
                                     86
                                         FE
          Z3UTIL2
                             14K
187.17
          ZCPR3
                     .HLP
                               4K
                                     66
                                         6 E
187.18
                                              ZCPR3 MAC files
          ALIASO
                     .MAC
                              8 K
                                     50
                                         72
187.19
          ALIAS1
                     .MQC
                              7 K
                                     71
                                         26
187.10
                                     42
                                         02
          CD
                     .MAC
                              3 K
187.21
                     . MAC
                                     F2
                                         1 D
          CMDRUN
                               1 K
                    . MAC
187.22
          COMMENT
                               4K
                                     FF
                                         64
187.23
          CPSEL
                                     26
                                         69
                    . MAC
                               7 K
```

```
ZCPR3 MAC files
                             12K
                                    FF
                                       15
188.01
                    . MQC
          CRC
                                    C9
188.02
                    . MQC
                              7 K
                                       59
          DEV
188.03
          DEVICE
                    . MQC
                              7 K
                                    97
                                        6 A
                    . MQC
                             10K
                                    F5
                                       79
188.04
          DIFF
188.05
          DIR
                    .MAC
                              7 K
                                    22 27
                    . MAC
                                    82
                                       4C
                              4K
188.06
          ECHO
                              7 K
                                    64
                                        55
188.07
          ERASE
                    .MQC
                    .MAC
                                    7B F1
                              8K
188.08
          ERROR1
                                    1E 35
188.09
          ERROR2
                    . MQC
                              6 K
                              4K
                                    85 FA
188.10
          ERROR3
                    . MAC
188.11
          ERROR4
                    .MAC
                              4K
                                    D1
                                       79
                    . MAC
                              2 K
                                    7 F
                                       9C
188.12
          ERRORX
                    . MQC
188.13
          FINDF
                             14K
                                    B6 D8
                              4K
                                    45 36
          GOTO
                    .MAC
188.14
                    . MQC
                             16K
                                    09
                                        D6
188.15
          HELP
                              7 K
                                    25
                                       79
188.16
          HELPCK
                    .MQC
          HELPPR
                    .MQC
                             19K
                                    70
                                       FO
188.17
                              7 K
188.18
          IF
                    .MQC
                                    5E
                                        57
          IFSTAT
                    .MAC
                              2 K
                                    23
                                        4E
188.19
                                    B8
                                        41
188.20
                    . MQ.C
                              8 K
          LDR
                                       DE
          MCOPY
                    . MQC
                             14K
                                    3 D
188,21
                            20K
                                    21
                                        E9
          MENU
                    . MQC
188.22
                MENUCK
                          . MQC
                                    8K
                                          98 D3
188.23
                    .MQC
                            12K
                                    DF
                                       E6
188.24
          MKDIR
                              1 K
                                    98
                                       6F
188.25
          NOTE
                    . MAC
188.26
          PAGE
                    .MQC
                             17K
                                    36
                                       5D
                    . MQC
188.27
          PATH
                              6 K
                                    FΒ
                                       ΑD
                                    24
                                       17
189.01
          PRINT
                    .MQC
                             19K
                                             ZCPR3 MAC files
                                    97
                                       CA
189.02
          PROTECT
                    .MQC
                              9 K
                    .MAC
                                       00
189.03
          PWD
                              5K
                                    DF
189.04
          QUIET
                    .MAC
                              3 K
                                    FA 09
189.05
                                    4E E7
          RECORD
                    .MAC
                              4K
189.06
                    . MAC
                              5 K
                                    40
                                       1 A
          REG
189.07
          RENAME
                    .MQC
                              9 K
                                    1E FB
                                    62
189.08
          SAK
                    .MAC
                              5 K
                                       C2
189.09
          SETFILE
                    . MAC
                              2 K
                                    73
                                       D5
                                    BE F5
189.10
          SH
                    .MQC
                            11K
189.11
          SHCTRL
                    .MAC
                              3 K
                                    CA
                                       E6
189.12
          SHDEFINE.MQC
                              8 K
                                    7E 64
189.13
          SHFILE
                    .MAC
                             2 K
                                    34 17
189.14
                                    AF
          SHOW
                    .MQC
                            20K
                                       69
189.15
          SHVAR
                    . MQC
                              8 K
                                    F9
                                       99
189.16
          SUB
                    .MQC
                            15K
                                    A1
                                       1 B
189.17
          TCCHECK
                    . MAC
                              5K
                                    70
                                       79
                    .MQC
189.18
          TCMAKE
                                       D5
                            13K
                                    02
189.19
          TCSELECT.MQC
                                    CB
                                       D5
                              8 K
189.20
          UNERASE .MQC
                            10K
                                    FA
                                       52
189.21
          WHEEL
                    . MAC
                              4K
                                    FF
                                       CF
189.22
          XD
                    . MQC
                            12K
                                    F7
                                       EO
189.23
          XDIR
                    . MQ.C
                            25K
                                    D6
                                       BC
189.24
          Z3INS
                    .MQC
                              7 K
                                    C8
                                       63
189.25
          Z3L0C
                    . MAC
                              4K
                                    35
                                       83
190.01
          SYSLIB1
                            60K
                                    39
                                       42
                                             Library of SYSLIB routines
                    .LBR
190.02
                                    EC 4C
          SYSLIB2
                   . LBR
                            78K
190.03
                    . LBR
          SYSLIB3
                            57 K
                                    DC
                                       5A
191.01
          SYSLIB
                                    29
                                       21
                                           SYSLIB library of routines
                    .REL
                            21 K
191.02
          SYSLIB27.REL
                            14K
                                    1C 54
191.03
          SYSLIB4
                   . LBR
                            48K
                                    7 B
                                       A6
191.04
          SYSLIB5
                                    78
                                       CO
                   .LBR
                            66K
                                             Upgrade notes to SYSLIB 2 & 3
192.01
          SYS2-3
                                    6B 3B
                    .TXT
                              9 K
                    .HLP
192.02
          SYSLIB
                             2K
                                    81
                                       84
                                             SYSLIB HELP files
                    .HLP
                                    86 FE
192.03
          SYSLIBO
                             14K
```

```
192.05
                  .HLP
                           5 K
                                6 D
                                   D5
         SYSLIB2
                          15K
                                F8 5C
192.06
         SYSLIB3
                  .HLP
192.07
                          12K
                                E7 A6
         SYSLIB4
                  .HLP
                                F4 17
                  .HLP
                          12K
192.08
         SYSLIB5
                                F4 5A
                           8K
192.09
                  .HLP
         SYSLIB6
                           6 K
                                15 2C
192.10
         SYSLIB7
                  .HLP
                           5K
                                3C A8
192.11
         SYSLIB8
                  .HLP
                           3 K
                                42 92
192.12
         SYSLIB9
                  .HLP
                           7 K
                                64 42
192.13
         SYSLIBA
                 . HLP
                                                                                92.16
                           5K
                                20 09
                  .HLP
192.14
         SYSLIBB
                           9 K
                                F9 6C
192.15
         SYSLIBC .HLP
                       .HLP
                                5K
                                      48 9A
               SYSLIBD
192.16
                           8 K
                                55 D3
192,17
         SYSLIBE .HLP
                                2A 54
                           4K
192.18
         SYSLIBF .HLP
                           3 K
                                EE 4C
         SYSLIBG .HLP
192.19
                                6F 02
                           2K
192.20
         SYSLIBH .HLP
192.21
                           6K
                                DC 1E
         SYSLIBI .HLP
                          32K
                                52 5D
                                       bidirectional pager for both squeezed and
193.01
         BISHOW31.AQM
                           3 K
                                B8 D1
                                       unsqueezed files.
193.02
         BISHOW31.COM
                          12K
                                       Oki, Epson, etc. output 2 cols. side by side
193.03
                  . LBR
                                B1 21
         DBL211
193.04
         HEX2DATA.BAS
                           ЗК
                                EF 71 turnd hex file into basic data statements
                          20 K
                                E2 15 Atari joysticks for Osborne
193.05
         JOYSTICK.LBR
                  . CAL
                           5K
                                B9 9B math of interest supercalc template
193.06
         MOI
                          68K
                                A5 19 ultimate MX-80, 100 set program
193.07
         MXSET22
                  .LBR
193.08
         PAF-TAB CAL
                          11K
                                AD OA interest calc supercalc template
                           6 K
                                3D C3 passwords for .COM files
193.09
         PSWORD
                  .LBR
                                       renames all files with same extension
                           8 K
                                8A DF
193.10
         RENEXT11.LBR
                  .LBR
                           7 K
                                   B4 inserts text statements in .COM files
193.11
         TXT23
                          23K
                                D9
                                   B6 Z80 debugger
193.12
         ZDEBUG17.LBR
                                FC 55
194.01
         PLOT33
                          44K
                                         Dot matrix graphics driver
                  .AQM
                                         Assembled files for CITOH, EPSON
194.02
         PLOTCITO.COM
                           4K
                                DD A3
                  .COM
                                   E6
                                         and OKIDATA printers. IDS, Apple
194.03
         PLOTEP
                           4K
                                C1
194.04
         PLOTOKI
                  .COM
                           4K
                                26 EB
                                         and others use .ASM file
                  .DQC
194.05
                         3 B K
                                3C 2D
         PLOT33
                                         Documentation
                                9D A2
194.06
         FILLS
                  . BAS
                           1 K
                                         MBASIC demo of stipple patterns
                  .FQ
194.07
         GRAF :
                         23 K
                                F9 97
                                         FORTRAN-80 plot package
194.08
         GRAF1
                  .PAS
                         17K
                                77
                                   9B
                                         Turbo Pascal low level routines
                                BO FF
194.09
         GRAF2
                  .PAS
                         19K
                                         Turbo Pascal graph drawing routines
194.10
         GRAPH
                  .BAS
                           9 K
                                B5 4F
                                         MBASIC plot package
194.11
         HANDPLOT.BAS
                        . 22K
                                93 B2
                                         Demonstration program
                  .BAS
                                D6 EF
194.12
         TEST
                           2 K
                                         MBASIC example program
194.13
         TEST
                  .PAS
                                41 CD
                           3 K
                                         Turbo Pascal example program
194.14
         UPLOAD
                  .BAS
                         10K .
                                DO 93
                                         MBASIC demo-stipple pattern redefinition
195.01
         FLUF10
                                79 A9
                                         Fluff minimax algorithm and updates-
                  . LBR
                         25K
195.02
         FLUF11/T.LBR
                                B5 E4
                         37K
                                         see Dr. Dobbs July 1984
195.03
                                57 49
                                         Updates ROFF4 (SIG/M Vol 174)
         ROFF4161.LBR
                          52 K
195.04
                                1A 34
                                         Simplex algorithm-see BYTE May 1984
         SIMP12/T.LBR
                         73K
                                         extracts library files, CP/M 80,86,MSDOS
196.01
         DELBR11A.LBR
                         53 K
                                CC 2D
                                         replacement for SUBMIT and XSUB
196.02
         EX14
                  . LBR
                         29K
                                9D D4
196.03
         FTNOTE13.LBR
                                5F B8
                                         produces footnotes with Wordstar
                         29K
196.04
         QK12
                                36 8D
                                         redefines keyboard
                  .LBR
                         16K
                  . LBR
                                   E5
196.05
         SD-92
                         79K
                                06
                                         updates sorted directory
                                B9 4C
196.06
         SDT
                  . LBR
                           4K
                                         enhancement to DDT
196.07
         UNSOFT1C.LBR
                         11K
                                BB 4F
                                         removes Wordstar high bits
                                        FIND in CP/M 80 and 86 with the ability
197.01
         FYNDE
                  .AQ6
                         13K
                                CA 3E
                                        to locate items in squeezed files too.
                                09 BE
197.02
         FYNDE
                  . AQM
                          11K
                                        Written using CNVRT and REC.
                  . CMD
                                BC 2B
197.03
         FYNDE
                           4K
                                FF BA
         FYNDE
                           3 K
197.04
                  .COM
                                        HELP in CP/M 80 and 86 with the ability
                  .AQ6
197.05
                                7C 62
         HJELP
                         22K
```

to reed squeezed files too.

192.04

SYSLIB1

HJELP

97.06

SOK

AQM.

F7 6F

.HLP

20 K

BB

```
197.07
                   .CMD
                            4K
                                 DD E4
                                         Written using CNVRT and REC.
         HJELP
197.08
       HJELP
                 .COM
                          4K
                                C2 E4
                          31K
                                 EF 08
197.09
         SIG197
                   . HQP
                                         Help file for this disk
                   .AQ6
197.10
         TYSQ
                           6 K
                                 F3 66
                                         Type squeezed files - CP/M 80 and 86
                           8K
                                 E0 60
                                         with the ability to read .COM files
197.11
         TYSQ
                   . AQM
197.12
         TYSQ
                   . CMD
                           2 K
                                 93
                                    DЗ
                                         too. Written using CNVRT and REC.
                                    98
197.13
                           1 K
                                 97
                   .COM
         TYSQ
                   .AQ6
                                    0 E
197.14
         UNSQ
                           8 K
                                 92
                                         Unsqueeze squeezed files. Written
                           7 K
                                 F2 DA
                   . AQM
                                         using CNVRT and REC.
197.15
         UNSQ
197.16
         UNSQ
                   .CMD
                           2 K
                                 8B 63
197.17
                   .COM
                           2K
                                 67
                                    86
         UNSQ
                  .LIB
                          11K
                                 F5 F5
                                         ED.COM .LIB version of UNSQ
197.18
         UNSQ80
                                 E9 4D
                          11K
                                         ED.CMD .LIB version of UNSQ
197.19
         UNSQ86
                   .LIB
                          30K
                                 3C 55
                                         ZCPR for 8086, 8088 computers
197,20
         CPR860
                   .LBR
                                 29 67
                  .BLD
                           3 K
                                          SIG/M Property Manager - a
198.01
         ADD
                                 97 F6
198.02
         ADD1
                  .BLD
                          14K
                                          complete property management program
                                          for tenanted real estate. Prints rent
198.03
         ADD2
                  .BLD
                           9 K
                                 ED 8B
                  .ACC
                           7 K
                                 9C AE
                                          bills, rent roll, delinquency list, etc.
198.04
         CHART
198.05
         CHECKS
                  .ACC
                           8 K
                                 02 B9
                                          Includes full accounting - cash receipts,
                           2 K
                                 E9 9B
198.06
         DBOX
                  .SPM
                                          cash disbursements, general journal and
198.07
         DEPOS
                  .ACC
                          12K
                                 F9
                                    C1
                                          general ledger. Prepares balance sheet
                                 2C 8B
198.08
         EDIT
                  .BLD
                           5K
                                          and P&L statements, etc. Self documented.
198.09
         INIT
                  .ACC
                           4K
                                 Α5
                                    15
                                          Required dBASEII (TM) version 2.4. To run
                                 9 D
                                    71
                                          under CP/M 80 rename .PRG file to .CMD.
         INIT
                  .SPM
                           4K
198.10
198.11
         JOURN
                  .ACC
                          10K
                                 25
                                    E2
                                          (.PRG files are on volume 199). Place
                                 AB 2C
         JOURP
                          18K
                                          all files on one disk with dBASE program
198.12
                  .ACC
                  .ACC
                           5K
                                 6C C6
                                          and type 'DBASE MANAGE' (or DBASE ACCOUNT
198.13
         MAIN
                  .BLD
198.14
         MAIN
                           7 K
                                 CO
                                    5C
                                          if you choose to program only as an
198.14
         MAINTAIN.ACC
                          17 K
                                 20 02
                                          accounting package). You may also have
                                    2F
198.16
         MAINTAIN, BLD
                          15K
                                 87
                                          dBASE on a separate disk and set default
                                    ED
198.17
                                 E5
         MENU
                  .ACC
                           1 K
                                          to disk where the Property Manager is.
198.18
         MENU
                  .BLD
                           1 K
                                 E5
                                    ED
198.19
         MENU
                  .SPM
                           8 K
                                 6 D
                                    DE
198.20
         POSTIT
                  .ACC
                          11 K
                                 83
                                    6 D
198.21
         PRINT
                  .BLD
                           2 K
                                 26
                                    51
198.22
         REPORT
                  .BLD
                          21K
                                 98
                                    B9
198.23
         SEARCH
                  . BLD
                           4K
                                 FD
                                    CE
                  .BLD
198.24
         SEARCH1
                                 83
                           4K
                                    A8
                  .ACC
198.25
         STATEM
                          12K
                                 DD ES
198.26
         STATEMP
                  .ACC
                          17K
                                 64 BF
199.01
         ACCOUNT
                  . DBF
                           1 K
                                 00 D9
                                         SIG/M Property Manager (cont)
199.02
         ACCOUNT
                  . NDX
                           3 K
                                 6A 1A
199.03
         BUILD
                  . DBF
                           1 K
                                 0E 11
199.04
         CHART
                  .DBF
                           6 K
                                    79
                                 5D
199.05
                  . NDX
         CHART
                           3 K
                                 DO
                                    28
199.06
         CHART1
                  .DBF
                           6 K
                                 5D
                                    79
199.07
         CHART2
                  .DBF
                           6 K
                                 92
                                    3 C
199.08
         CODE
                  . NDX
                                 96
                                    23
                                                                                     199,15
                           1 K
199.09
         CODEA
                  .NDX
                           1 K
                                 3 D
                                    BB
199.10
         EDIT
                  .TNT
                           7 K
                                 66
                                    19
199.11
         MAIN
                  .TNT
                                 8A
                                    77
                           8 K
199.12
         MANAGE
                                 10
                  .CMD
                          11K
                                    07
199.13
         MANAGE
                  .PRG
                          11K
                                 10 07
199.14
         PRINT
                  .TNT
                           4K
                                 E8 83
                                           92
199.15
                SEARCH
                         .TNT
                                  5K
                                        47
199.16
         SEARCH1
                                 8A 25
                  .TNT
                           5K
199.17
         STATEMNT.DBF
                           1 K
                                 05 E0
199.18
                                 62 A3
         TENANT
                  . DBF
                           6 K
199.19
                  . CMD
         ACCOUNT
                          11 K
                                 FO C8
                                         Alternate 'front end' for Property Manager
199.20
         ACCOUNT
                  .PRG
                                 FO C8
                          11 K
199.21
         MAIL
                  . CMD
                           7 K
                                 48
                                    O D
                                         SIG/M Mail Manager, a complete
199.22
         MAIL
                  .PRG
                           7 K
                                 48
                                    OD
                                         mailing list and record manage-
199.23
         ACG
                  . DBF
                           2K
                                 21
                                    9E
                                         ment application program
199.24
         ADD
                  .ACG
                           8K
                                 9F
                                            is. ith dBASFII (TM) version 2.4.
                                   6 F
```

```
199.25
                            1 K
         DUPCHECK.ACG
                                  9 A
                                      9 E
199.26
                   .ACG
                            4K
                                  DO
                                      86
         DUPREC
199.27
                   .ACG
                            6 K
                                  8F
                                      87
         EDIT
                                     F9
199.28
         INIT
                   .ACG
                            3 K
                                  87
199,29
         LASTNAME.NDX
                            1 K
                                  B9
                                      EF
                   .ACG
                            3 K
                                  F8
                                     DO
199.30
         LIST
                   .ACG
                            2K
                                  E6
                                     09
199.31
         LIST1
                                  ΕO
                            5K
                                      B2
                   .ACG
199.32
         MAIN
                            6 K
                                  18
                                      EΑ
199.33
         MAINTAIN.ACG
                   .ACG
                            2 K
                                  60
                                     CA
199.34
         PHONE
                            1 K
                                  95
                                     C6
199.35
         PRINT
                   .ACG
                                  7F
199.36
         PURGE
                   .ACG
                            2 K
                                      84
                   .ACG
                            5K
                                  5F
                                     DA
199.37
         REPORT
199.38
         SEARCH
                   .ACG
                            4K
                                  38
                                      BC
                            5K
                                  48
                                      33
                   .ACG
199.39
         SEARCH1
                            3 K
                                  27
                                      95
         VERIFDEL.ACG
199.40
199.41
                            3 K
                                  3 B
                                     38
         VERIFNEW.ACG
                   .ACG
                            3 K
                                  FO
                                     D7
199.42
         WSFILE
199.43
         WSFILE1
                   .ACG
                            4K
                                  B2
                                     32
                   .CMD
                            7 K
                                  9C
                                     7 F
                                          SIG/M Phone Manager, a handy and fast
199.44
         PHONE
                            2K
                                  38
                                     17
199.45
         PHONE
                   .DBF
                                          phone and address database for use with
         PHONE
                            1 K
                                  C9
                                     45
                                          dBASEII (TM)
199.46
                   .NDX
                                     7F
                            7 K
                                  9 C
199.47
         PHONE
                   .PRG
                                  4F
                                     D5
200.01
         CLEANDIR.COM
                            2K
                                          ZCPR3 sort & pack utility
200.02
         CMD
                   .COM
                            1 K
                                  B2
                                     81
                                          ZCPR3 command line processor
         DPROG
                   .COM
                            3 K
                                  70
                                     00
                                          ZCPR3 printer, terminal programmer
200.03
                            6 K
                                  05
                                     6A
                                          squeezed HELP file for DPROG
200.04
         DPROG
                   . HQP
                                     79
                           12K
                                          ZCPR3 disk utility
200.05
         DU3
                   .COM
                                  06
                                     C7
200.06
         DU3
                   .HQP
                           25K
                                  F8
                                          squeezed HELP file for DU3
200.07
         MU3
                   . COM
                            ЗК
                                  F5
                                     53
                                          ZCPR3 memory utility
200.08
         BUM
                   . HQP
                            5 K
                                  E9
                                     15
                                          squeezed HELP file for MU3
200.09
         SHSET
                   .COM
                            1 K
                                  4A
                                     16
                                          makes ZCPR3 command line into shell
200.10
                           11K
                                  D1
                                     62
         VFILER
                   .COM
                                          ZCPR3 screen oriented file utility
                                     2C
200.11
         VFILER
                   .HQP
                           14K
                                  3 B
                                          squeezed HELP file for VFILER
200.12
         VLIB
                                  1 C
                   .HQP
                            8 K
                                     84
                                          screen mainipulation library HELP file
                                     A1
200.13
         VLIB
                   .REL
                            2 K
                                  01
                                          library of screen manipulation routines
200.14
         VMENU
                   .COM
                            6 K
                                  A5
                                     CA
                                          screen oriented file utility
200.15
         VMENU
                   .HQP
                           20 K
                                  DD
                                     19
                                          squeezed HELP file for VMENU
200.16
         VMENUCK
                   .COM
                            3 K
                                  9E
                                     17
                                          menu file syntax checker
                                     30
200.17
         Z3LIB11
                   .REL
                            8K
                                  8F
                                           library of support utility routines
                   .HQP
200.18
         Z3 LIB
                            2 K
                                  36
                                     ΕD
                                          squeezed support utility library
200.19
         Z3LIB1
                   .HQP
                           19K
                                  51
                                      41
                                          HELP files
200.20
         Z3LIB2
                   .HQP
                            4K
                                  E3
                                     F2
200.21
         Z3LIB3
                   .HQP
                                     44
                           13 K
                                  E4
200.22
         Z3LIB4
                           12K
                                     97
                   .HQP
                                  88
200.23
                                     F2
         Z3UTIL3
                   .HQP
                            5K
                                  17
201.01
         CLEANDIR . MQC
                                  BB 7B
                                          ZCPR3
                            8K
                                                 utilities source code
201.02
         CMD
                                     25
                   . MQC
                            4K
                                  CC
         DEBUGRCP . AQM
201.03
                                     33
                           20 K
                                  B6
201.04
         DPROG
                   . MQC
                           13K
                                  93
                                     27
201.05
         DU3
                                  8F
                                     B0
                   . MQC
                           54K
201.06
         MU3
                   . MQC
                           11K
                                  63
                                     72
201.07
         SHSET
                                  F 9
                                     66
                   .MQC
                            3 K
201.08
         VFILER
                                  47
                                     11
                   .MQC
                           58K
201.09
         VMENU
                                  4F
                                     3 C
                   .MQC
                           36 K
201.10
         VMENUCK
                   . MQ.C
                            8 K
                                  E6
                                     04
202.01
         ANYCODE
                  .ASM
                            3 K
                                  58 44
                                          program to set printer from
                   . DQC
202.02
         ANYCODE
                           14K
                                  9 E
                                     A1
                                          Wordstar
202.03
         RSA/T12
                                  CF
                                     00
                  .LBR
                           75K
                                          public key cryptography
202.04
         VID1
                   . MAC
                            1 K
                                  BO F4
                                          ZCPR3 library of routines for
202,05
         VID2
                   . MAC
                            1 K
                                  12
                                     OA
                                          screen manipulation
202.06
         VID3
                   .MAC
                            1 K
                                  6C
                                     ΑD
202.07
         VID4
                   .MAC
                            1 K
                                  E2
                                     25
```

```
80.202
                                 44 4C
         VID5
                  . MAC
                           1 K
202.09
         VID6
                  . MAC
                           1 K
                                 F8 F4
                                                                       5/8 224
202.10
                  .MAC
                           5K
                                 46 6C
         VID7
                                 96 9E
                  .MAC
                           1 K
202.11
         VID8
                                 E6 29
                           2 K
202,12
         VID9
                  .MAC
                                 65 69
202.13
                  .MAC
                           1 K
         VIDA
                  . MAC
                           1 K
                                 3 C
                                   61
202.14
         VIDB
                           1 K
                                 A6 D7
202.15
         VLAT
                  .MAC
                                 EC
                                   3 A
202.16
         VLGXYMSG.MAC
                           2 K
202.17
                  . LBR
                          99K
                                 DB 23
                                         ZCPR3 support utility library
         Z3MAC
         80 T86
                  .LBR
                         114K
                                 B6
                                   EC
                                         CP/M 80 to 86 translator
203.01
                                 98 A1
                                         advanced CNVRT HELP file
                  .HLP
                          40 K
203.02
         CNVADV
                                         FIND - with the capability
                  .A86
                          25K
                                 E5
                                   Α7
203.03
         FFYNDE
                                   4C
                          23 K
                                 22
                                         of generating a cross reference
                  .ASM
203.04
         FFYNDE
                           5K
                                 48 ED
                                         listing
                  .CMD
203.05
         FFYNDE
                                 5A F8
                           4K
203.06
         FFYNDE
                  .COM
                                         /
                  .COM
                          24K
                                 09 33
                                         compiled Forth
204.01
         F83
                          13K
                                 DD
                                   E2
                                         original F83 instructions
204.02
         README
                  .8Q
         F83-FIXS.TQT
                           4K
                                 52 E2
                                         changes from F83 v 1.0
204.03
                                 1B 94
                                         BASIC compiler in F83
                           5K
204.04
         BASIC
                  .BQK
                  . BQK
                                 OB CO
                                         Source for a calendar example
                           3 K
204.05
         CLOCK
                          10K
                                 08 B1
204.06
         CPU8080 .BQK
                                         8080 dependent code
204.07
         EXPANDED . BQK
                           3 K
                                 AE E5
                                         original source to EXPAND.HUF
                           9 K
                                 ΕD
                                   DO
204.08
         EXTENDSO.BQK
                                         entensions source
                                 25 1A
                          13K
204.09
         HUFFMAN .BQK
                                         compression program
                                 B8 75
                                         kernel source
204.10
         KERNEL80.BQK
                          63K
204.11
         META80
                  .BQK
                          13K
                                 6E D8
                                         metacompiler source
                                 4E 38
204.12
         UTILITY .BQK
                          37K
                                         utility source
205.01
         F83
                  .68K
                          29K
                                 1B F1
                                         compiled Forth
205.02
         README
                  .6Q
                          13K
                                 OC 33
                                         original F83 instructions
205.03
         F83-FIXS.TQT
                                 52
                                    E2
                                         changed from F83 v 1.0
                           4K
               BASIC
205.04
                                 5 K
                                              BASIC compiler in F83
                        .BQK
         CLOCK
                                    CO
205.05
                  .BQK
                           3 K
                                 0 B
                                         Source for calendar example
205.06
         CPU68000.BQK
                          16K
                                 38 C6
                                         68000 dependent code
                                 9D 92
                                         original source to EXPAND.HUF
205.07
         EXPAND68.BQK
                           3 K
                                 89 D4
                                         extensions source
205.08
         EXTEND68.BQK
                           9 K
205.09
         HUFFMAN .BQK
                          13K
                                 25 1A
                                         compression program
205.10
         KERNEL68.BQK
                          61 K
                                 B3 86
                                         kernel source
205.11
         META68
                  .BQK
                          14K
                                 66 DO
                                         metacompiler source
         UTILITY .BQK
205.12
                          36K
                                 6E E6
                                         utility source
206.01
         ENCOL
                  . LBR
                          79K
                                 4D 59
                                         multiple column listings, two side of paper
                                         HELP files, even squeezed, within a library
206.02
         HJELP
                  . LBR
                                 18 62
                          59K
                                         Quicksort to order the lines of a file
206.03
                  . LBR
         QSORT
                          20 K
                                 E1
                                    C7
206.04
         TY
                                 82 DD
                                         type, whether binary, squeezed or library
                  . LBR
                          63 K
207.01
                                                                                 (B5CC)
         APC-DUMP.LBR
                          16K
                                 57
                                    EΑ
                                         NEC APC dump program
         APCVFILE.LBR
                                                                                 (9EA7)
207.02
                          74K
                                 85 F9
                                         VFILER for NEC APC
207.03
         VFILEAPC.CMD
                                 E2 4C
                                                                                 (48C4)
                          . 9K
207.03
                                                                                 (8639)
         BIDUMP86.LBR
                          11K
                                A9 F0
                                        CP/M 86 bidirection dump
207.04
                                         Improved CP/M 86 bidirectional SHOW
                                                                                 (B7B1)
         BISHOW86.CMD
                           2K
                                 OE B3
                                                                                 [7833]
207.05
                                AO 9B
         BISHOW86.LBR
                          12K
207.06
                                                                                 (F276)
         LTYPE86 .LBR
                          10K
                                 C4 87
                                         LTYPE for CP/M 86
207.07
                                                                                 (5954)
                                 17 23
         LU86
                  .CMD
                          19K
                                         CP/M 86 library utility
207.08
         LU86-2
                                                                                 (1CB2)
                  .LBR
                          39K
                                 3E 38
207.09
                                                                                 (F5AC)
         PRINT86 .LBR
                          15K
                                 B1 67
                                         CP/M 86 PRINT utility
207.10
         TYPESQ86.LBR
                           7 K
                                 4A 87
                                         CP/M 86 Typesqueeze
                                                                                 (2672)
207.11
                  . CMD
                          18K
                                         Unsqueeze for CP/M 86
         usa
                                 24 CD
                                                                                 (CD6D)
         3740UTIL.LBR
208.01
                          71K
                                 48 41
                                       IBM 3740 disk utility
208.02
         META412 .LBR
                          99K
                                 49 D7 META4 in 8080 code
208.03
         SF
                 . LBR
                          34K
                                 97 3C Z80 bidirectional show
```

Z03

ZQ3

-CRCFILE.003

ABSTRACT,003

2k

4k

AS OF 4/10/85 ZUG (PASCAL Z) DIRECTORY vols. 1-26

(as of 4/10/85)

```
Z01 55619 -CATALOG.001
                            2k
                                 Contents of Pascal Z Users Group volume 01
                                                             SEE SIGMUG V.19
  Z01
                            1k
           -CATALOG.ACK
                                 Acknowledgement file
  Z01
           ABSTRACT.001
                            3 k
                                 Comments on Volume 01
                                                                  CPMUG
201
           CRCKFILE.001
                            2k
                                 CRC of volume 01
  Z01.01
                                 Autoboot on CP/M cold start
           AUTOBOOT.ASM
                            5k
  Z01.02
           AUTOBOOT.COM
                            1k
                                 Autoboot on CP/M cold start
                           11k
                                 Simplex algorithm - PASCAL
  Z01.03
            LINEARP
                    .PAS
                    .COM
                           21 k
  Z01.04
            LINEARP
                                 Simplex algorithm - PASCAL
                            1 k
                                 Demo for VARIANT records
  Z01.05
            VARIANT .PAS
                                 Demo for VARIANT records
                            5k
  Z01.06
            VARIANT .COM
                            2k
                                 Demo for linked lists
  Z01.07
           REVERSE .PAS
  Z01.08
           REVERSE .COM
                            6 k
                                 Demo for linked lists
  Z01.09
            EDITFILE.PAS
                            9k
                                 Adapted from S-100 Microsystems
                           13 k
                                 Adapted from S-100 Microsystems
 Z01.10
            EDITFILE.COM
                    .PAS
  Z01.11
           RT
                            4k
                                 Demo program for non-text files
  Z01.12
                     .COM
                            8k
                                 Demo program for non-text files
           RT
  Z01.13
           STARS
                    .PAS
                            6 k
                                 Game - PASCAL
  Z01.14
           STARS
                    .COM
                            7k
                                 Game - PASCAL
  Z01.15
           ADDN
                     .PAS
                            1 k
                                 Simple demo to ADD two numbers
 Z01.16
           ADDN
                     .COM
                            6 k
                                 Simple demo to ADD two numbers
  Z01.17
           ZMNEMONS.DOC
                           13 k
                                 Programming aid
  Z01.18
           TRIAN
                    .PAS
                            1k
                                 Demo on FOR loops
 Z01.19
           TRIAN
                    .COM
                            4k
                                 Demo on FOR loops - PASCAL
  Z01.20
           CONCHAR .PAS
                            6 k
                                 Utility for command line input
  Z01.21
           SCAN2X
                    .PAS
                            5k
                                 File READ evaluation
 Z01.22
           SCAN2X
                    .COM
                            8k
                                 File READ evaluation - PASCAL
 Z01.23
           STRDEMO .PAS
                           14k
                                 DEMO on STRing functions
  Z01.24
           STRLIB
                    .DOC
                            4k
                                 Part of STRDEMO.PAS
 Z01.25
           LONG
                    .PAS
                            3k
                                 Demo to string words together
 Z01.26
           LONG
                    .COM
                            7k
                                 Demo to string words together - PASCAL
  Z01.27
           MAKEREL .DOC
                            8k
                                 Convert REL. files from function blks
  Z01.28
           LIOS
                    .ASM
                            7k
                                 Novice utility
  Z01.29
           CONVERT . PAS
                            1 k
                                 CONVERT gas in liters
  Z01.30
                    .COM
           CONVERT
                            6 k
                                 CONVERT gas in liters
  Z01.31
           COMPARE .!!!
                           11k
                                 COMPARE source code files from UCSD
 Z01.32
           DUMP
                    .ASM
                           23k
                                 Expanded CP/M DUMP program
 Z01.33
           LSTR
                    .PAS
                            2k
                                 Generates a line of various length
 205 thes
           -CATALOG.002
                            2k
                                 Contents of Pascal Users Group volume 02
 Z02
           ABSTRACT.002
                                 Comments on PCE system Monitor
                            2 k
                                                                    SEE SJEMUE V.20
 Z02
           -CRCFILE.002
                            1 k
                                 CRC of Volume 02
                                                                         CPM46 U.TZ
  Z02.01
           SYSMON
                    .DOC
                         103k
                                 Complete Manual of SYStem MONitor
 Z02.02
           SYSMONA
                    .Z80
                            2k
                                 Central subsystem module
 Z02.03
           ASPM1
                    .Z80
                           11 k
                                 Command subsystem, module one
 Z02.04
           ASPM2
                    .Z80
                           12k
                                 Command subsystem, module two
  Z02.05
           VECTOR
                    .Z80
                                 Intel I/O standard VECTOR subsystem
                            3 k
  Z02.06
           CONSOL
                    .Z80
                           14k
                                 CONSOLe subsystem
 Z02.07
           DISK
                    .Z80
                            5k
                                 Floppy DISK subsystem for CPM & monitor
 Z02.08
           CASS
                    .Z80
                            8k
                                 CASSette subsystem
           BMGEN
 Z02.09
                    .Z80
                            1k
                                 Bit map GENerator
  Z02.10
           BMGEN
                    .COM
                            1k
                                 Bit map GENerator
  Z02.11
                                 Static LOADER for system
           LOADER
                    .Z80
                           10k
  Z02.12
           LOADER
                    .COM
                            3k
                                 Static LOADER for system
  Z02.13
           SYS
                    .COM
                           16 k
                                 SYStem Monitor boot-up program
Z02.14
           ONE
                    .HEX
                           14k
                                 Used with bringing up bit map
  Z02.15
           ZERO
                    .HEX
                           14k
                                 Used with bringing up bit map
 Z02.16
           COPYTT
                    .Z80
                            1k
                                 Sample command similiar to a COM file
 Z02.17
           COPYTT
                    .SMC
                                 Sample command sililar to a COM file
                            1 k
 Z03 556 21 -CATALOG.003
                            2k
                                 Contents of PASCAL Users Group volume 03
```

CRC of Volume 03

Comments of 'olime 03

SEE SEE MUG V.21

COMUS V-72

```
Z03.01
                      .PAS
                             10k
                                   General purpose "keyword in text"
             AUTHOR
    Z03.02
             AUTHOR
                      .COM
                             11k
                                   General purpose "keyword in text"
                              1k
                                   General purpose "keyword in text"
    Z03.02a
             ADDRESS
                              1k
                                   General purpose "keyword in text"
    Z03.02b
                      . MAG
             BYTE
    Z03.02c
             S100
                              1k
                                   General purpose "keyword in text"
                      . MAG
    Z03.03
                             12k
                      .PAS
                                   Calculator mode program
             CALC
    Z03.04
             CALC
                      .COM
                             16 k
                                   Calculator mode program
                      .PAS
                              2k
                                   Simple banner program
   Z03.05
             CPLOT
                      .COM
                                   Simple banner program
    Z03.06
             CPLOT
                              5k
                                   General PASCAL Z utility
                      .PAS
                              1 k
    Z03.07
             DELAY
             DELAY
                      .REL
                              1k
                                   General PASCAL Z utility
    Z03.08
                              1k
                      .SRC
                                   General PASCAL Z utility
    Z03.09
             DELAY
                      .REL
             INPORT
                              1k
                                   General PASCAL Z utility
    Z03.10
                              1k
                                   General PASCAL Z utility
    Z03.11
              INPORT
                      .SRC
                                   General PASCAL Z utility
    Z03.12
              OUTPORT
                      .REL
                              1k
    Z03.13
             OUTPORT
                      .SRC
                              1k
                                   General PASCAL Z utility
                      .REL
                              1 k
                                   General PASCAL Z utility
    Z03.14
             KEYIN
                              1k
                                   General PASCAL Z utility
    Z03.15
             KEYIN
                      .SRC
             NAD
                      .PAS
                             10k
                                   Permuted keyword index program
    Z03.16
    Z03.17
             NAD
                      .COM
                             10k
                                   Permuted keyword index program
                              6 k
                                   Driver for Diablo w/Teletek FDC-1
    Z03.18
             TDIABLO .MAC
    Z03.19
             TDIABLO
                      .COM
                              1k
                                   Driver for Diablo w/Teletek FDC-1
    Z03.20
             DIABLO
                      .Z80
                              5k
                                   Driver for Diablo w/SD systems S100
    Z03.21
             DIABLO
                      .COM
                              1k
                                   Driver for Diablo w/SD systems S100
                              2k
    Z03.22
             RANDOM
                      .PAS
                                   Fibonacci random number generator
    Z03.23
             RANDOM
                      .REL
                              1k
                                   Fibonacci random number generator
   Z03.24
                              4k
             RANDOM
                      .SRC
                                   Fibonacci random number generator
                              1 k
   Z03.25
                      .COM
                                   REBOOTing desired file
             REBOOT
    Z03.26
             STRLIB
                      .LIB
                             12k
                                   PASCAL Z LIBrary
   Z03.27
             WUMPUS
                      .PAS
                             12k
                                   WUMPUS game in PASCAL Z
    Z03.28
             WUMPUS
                      .COM
                             15k
                                   WUMPUS game in PASCAL Z
    Z03.29
             WUMPUS
                      .DOC
                              4k
                                   WUMPUS game in PASCAL Z
    Z03.30
             CAVEO
                              1k
                                   Wumpus game in PASCAL Z
   ZO3.31
             CAVE1
                              1 k
                                   Wumpus game in PASCAL Z
    Z03.32
             CAVE2
                              1k
                                   Wumpus game in PASCAL Z
^ zos.33
             CAVE4
                              1k
                                   Wumpus game in PASCAL Z
    Z03.34
             CAVE5
                              1k
                                   Wumpus game in PASCAL Z
   Z03.35
             ENTRY
                      .PAS
                              6k
                                   Creating SRC files
                                   Creating SRC files
    Z03.36
             ENTRY
                      .COM
                              9 k
    Z03.37
             ENTRY
                      .DOC
                              6k
                                   Creating SRC files
    Z03.38
             PEEK
                      .PAS
                              2k
                                   PEEK and poke in PASCAL Z
    Z03.39
             POWERI
                                   Demo program on POWERs of numbers
                      .PAS
                              1 k
   Z03.40
             POWERI
                      .COM
                                   Demo program on POWERs of numbers
                              7k
    Z03.41
             POWERI
                      .REL
                              2k
                                   Demo program on POWERs of numbers
    Z03.42
             RDR
                      .PAS
                              7k
                                   Alpha-numeric number conversion program
    Z03.43
             DU
                      .Z80
                             29k
                                   Updated disk utility using Z80 code
   Z03.44
             DU
                      .COM
                                   Updated disk utility using Z80 code
                              4k
             DU
                      .DOC
   Z03.45
                              1k
                                   Updated disk utility using Z80 code
    ZO4 5 > FV-CATALOG.004
                              2k
                                   Contents of PASCAL Users Group volume 04
    Z04
                                                                 SIEMUT U. 22
             -CRCFILE.004
                              2k
                                   CRC of Volume 04
                                                            SEE
                                                                 CPMUS V 74
    Z04
             ABSTRACT.004
                              4k
                                   Comments on volume 04
    Z04.01
             CFIO
                      .LIB
                              2k
                                   Program to open files
    Z04.02
             CONCORD
                                   Program that builds an alphabetical
                      .COM
                             10k
    Z04.03
             CONCORD .PAS
                             11k
                                   Listing of distinct words
    Z04.04
             COSINE
                      .PAS
                              2k
                                   COSINE program - PASCAL
    Z04.05
             COSINE
                              2k
                                   COSINE program - PASCAL
                      .REL
    Z04.06
             COSINE
                      .SRC
                                   COSINE program - PASCAL
                              6k
  Z04.07
             GEN5
                      .COM
                              8k
                                   Demo on accessing CP/M files
    Z04.08
             GEN5
                      .PAS
                              5k
                                   Demo on accessing CP/M files
    Z04.09
             GRAPH1
                      .COM
                             10k
                                   Presents a function in GRAPHic form
    Z04.10
             GRAPH1
                      .PAS
                              1 k
                                   Presents a function in GRAPHic form
    Z04.11
             ISORTV1
                      .COM
                              6 k
                                   Insertion SORT with linked list
    Z04.12
             ISORTV1
                      .PAS
                              4k
                                   Insertion SORT with linked list
    Z04.13
                      .COM
             LINENOS
                                   Keep track of text LINEs
                              8k
    04 14
             LINENOS
                     PAS
                                     and the
                                                 t · v
```

```
Z04.15
                   .COM
                                Demo on the use of POINTers
          POINT
                          6 k
Z04.16
          POINT
                   .PAS
                          2k
                                Demo on the use of POINTers
Z04.17
                          4k
                                "Professional" RANDOM number generator
          RANDOM
                   .MAC
Z04.18
                   .PAS
                          1k
                                Simple RANDOM number generator
          RANDOM
                                SINe/COSine utility
Z04.19
          SINCOS
                   .SRC
                          5k
          SINCOS
Z04.20
                   .REL
                          1k
                                SINe/COSine utility
Z04.21
                   .DOC
                          5k
                                Ray Peniey's latest updated STRing LIBrary
          STRLIB
Z04.22
                         13 k
          STRLIB
                   .LIB
                                STRing LIBrary - PASCAL
                          9k
Z04.23
          TRIG4
                   .COM
                                Demo - Builds a short TRIG chart
Z04.24
          TRIG4
                   .PAS
                          2k
                                Demo - Builds a short TRIG chart
Z04.25
          XREFG2
                   .COM
                         13 k
                                A binary tree type cross-REF generator
Z04.26
                         18k
          XREFG2
                   .PAS
                                A binary tree type cross-REF generator
Z04.27
                   .COM
                          8k
          ZPTEX
                                Very simple TEXt formatter
                          8k
Z04.28
          ZPTEX
                   .PAS
                                Very simple TEXt formatter
Z04.29
          LESSON4
                          5k
                                PASCAL learning program
                         12k
Z04.30
          RECIPE
                   .COM
                                RECIPE program - PASCAL
Z04.31
          RECIPE
                   .PAS
                         17 k
                                RECIPE program - PASCAL
Z04.32
          RECIPE
                   .MST
                          1 k
                                RECIPE program - PASCAL
Z04.33
          RCPDAT
                   .YYY
                          1 k
                                Dummy recipe file
                   .COM
Z04.34
          FCLOSE
                          8 k
                                Three ways to CLOSE a file - PASCAL
Z04.35
          FCLOSE
                   .PAS
                          4k
                                Three ways to CLOSE a file - PASCAL
ZOS SEGO -CATALOG.005
                          2k
                                Contents of PASCAL Users Group volume 05
                                                               SEE STEMUE U.23
Z05
          -CRCFILE.005
                          2k
                                CRC of volume 05
                                                                    CPMUS V-75
Z05
          ABSTRACT.005
                          2k
                                Comments on volume 05
Z05.01
          EXP<sub>0</sub>
                   .PAS
                          3 k
                                Demo on the use of EXPOnents
Z05.02
          EXP0
                   .COM
                          7 k
                                Demo on the use of EXPOnents
Z05.03
          COMPARE .DOC
                          9k
                                UCSD program COMPARE documentation
                         11k
Z05.04
          DISASMB
                   .DOC
                                DISASsembler in MicroSoft Basic V 5.1
Z05.05
          8085
                   .LST
                          1 k
                                Microsoft Basic 5.1 disassembler
Z05.06
          8085
                   .TAB
                          1k
                                Microsoft Basic 5.1 disassembler
Z05.07
          DISASMB
                   .BAS
                         13 k
                                Microsoft Basic 5.1 disassembler
                          1k
Z05.08
          INTEL
                   .LST
                                Microsoft Basic 5.1 disassembler
Z05.09
          INTEL
                   .TAB
                          1 k
                                Microsoft Basic 5.1 disassembler
Z05.10
          LST8085 .BAS
                          3k
                                Microsoft Basic 5.1 disassembler
Z05.11
          LSTINTEL.BAS
                          3k
                                Microsoft Basic 5.1 disassembler
Z05.12
                   .BAS
          LSTTDL
                          4k
                                Microsoft Basic 5.1 disassembler
Z05.13
          LSTZILOG.BAS
                          3 k
                                Microsoft Basic 5.1 disassembler
Z05.14
          TAB8085 .BAS
                          7 k
                                Microsoft Basic 5.1 disassembler
Z05.15
          TABINTEL.BAS
                          6 k
                                Microsoft Basic 5.1 disassembler
Z05.16
          TABTDL
                   .BAS
                         11k
                                Microsoft Basic 5.1 disassembler
Z05.17
          TABZILOG.BAS
                         11k
                                Microsoft Basic 5.1 disassembler
Z05.18
          TDL
                   .LST
                          1k
                                Microsoft Basic 5.1 disassembler
Z05.19
          TDL
                   .TAB
                          3 k
                                Microsoft Basic 5.1 disassembler
Z05.20
          XREF
                   .BAS
                          6 k
                                Microsoft Basic 5.1 disassembler
Z05.21
          XREF
                   .SUB
                          1 k
                                Microsoft Basic 5.1 disassembler
Z05.22
          ZILOG
                   .LST
                          1 k
                                Microsoft Basic 5.1 disassembler
Z05.23
          ZILOG
                   .TAB
                          3 k
                                Microsoft Basic 5.1 disassembler
Z05.24
          DATE
                   .DOC
                          7 k
                                DATEs routines
Z05.25
          BRKDATE .LIB
                          1k
                                DATEs routine
Z05.26
          DASTRLON.LIB
                          2k
                                DAtes routine
Z05.27
          DASTRLON.LIB
                          2k
                                DAtes routine
Z05.28
          DASTRSH .LIB
                          2k
                                DAtes routine
Z05.29
          DATE
                          7k
                   .PAS
                                DATEs routine
Z05.30
          DATEFUNC.LIB
                          2k
                                DATEs routine
Z05.31
          MAKEDATE.LIB
                          2k
                                DATEs routine
Z05.32
          PROMPT
                   .LIB
                          1k
                                Dates routine
Z05.33
          RMAKEDA .LIB
                          2k -
                                Dates routine
Z05.34
          MISC
                   .DOC
                          2k
                                MISCellaneous routines
Z05.35
          CAPCHAR
                   .LIB
                          1k
                                Misc routines - PASCAL
Z05.36
                          1 k
          CAPSTR
                   .LIB
                                Misc routines - PASCAL
Z05.37
          DEPAD
                   .LIB
                          1k
                                Misc routines - PASCAL
Z05.38
          GETINT
                   .LIB
                          1k
                                Misc routines - PASCAL
Z05.39
          PADSTR
                   .LIB
                          1k
                                Misc routines - PASCAL
Z05.40
          STRVAL
                          1k
                   .LIB
                                Misc routines - PASCAL
Z05.41
          HANDI
                          4k
                   .COM
                                Demonstrating recursive procedures
```

```
.PAS
                                  Demo - recursive procedures
  Z05.43
                            44k
                                  TDL DISASsembler - see ABSTRACT.005
             DIS
                     .ASM
                     .DOC
  Z05.44
             DIS
                             5k
                                  TDL DISASsembler
  Z05.45
            CONFER
                     .COM
                             9k
                                  CONFERence scheduler
  Z05.46
            CONFER
                     .PAS
                             6 k
                                  CONFERence scheduler
   ZO6 SETT -CATALOG.006
                             2k
                                  Contents of Pascal Z Users Group Volume 06
                                                                      SEE 536 MUG V. 24
  Z06
                             1k
            -CATALOG.ACK
                                  Acknowledgement file
                                                                          CPMUE U.76
  Z06
                             4k
                                  Descriptive Contents of Volume 06
            ABSTRACT.006
                                  COMPLEX number utility
   Z06.01
            COMPLEX .LIB
                             5K
                                  CURSOR control for SD sales video
   Z06.02
            CURSOR
                     .LIB
                             2K
  Z06.03
            CURSOR
                     .PAS
                             3 K
                                  PASCAL source for CURSOR control
                     .COM
                             7 K
                                  Object for CURSOR control
   Z06.04
            CURSOR
            FINDBAD .MAC
                             7 K
                                  Locate BAD sectors under CP/M 2.X
  Z06.05
                             2 K
                                  Object to locate BAD sectors under CP/M 2
  Z06.06
            FINDBAD .COM
                             2 K
            LONGLINE.PAS
                                  Concatenation Demo
  Z06.07
            LONGLINE.COM
  Z06.08
                             7 K
                                  Object for concatenation Demo
                             9 K
  Z06.09
            NAD4
                     .PAS
                                  Name Address data entry
                     .COM
                             9 K
                                  Object for Name Address data entry
  Z06.10
            NAD4
                             6 K
                                  OTHELLO - UCSD version
  Z06.11
            OTHELLO .PAS
                     .PAS
                             8K
                                  Othello subroutine
  Z06.12
            OTHELL1
                             8 K
                                  Othello subroutine
  Z06.13
            OTHELL2 .PAS
  Z06.14
            OTHELLIN.PAS
                             8 K
                                  Othello INput routine
                             1 K
  Z06.15
            PTABLE
                     .PAS
                                  TABLE generating Demo
  Z06.16
            PTABLE
                     .COM
                             8K
                                  Object for TABLE generating Demo
  Z06.17
            PTRS2
                     .PAS
                             4K
                                  Pointer DEMO program
                     .COM
                             5K
  Z06.18
            PTRS2
                                  Object for Pointer Demo program
  Z06.19
            QQSORT
                     .PAS
                             4K
                                  PASCAL - Quicker SORT
  Z06.20
            QQSORT
                     .LIB
                             3 K
                                  Subroutines for PASCAL - Quicker SORT
                     .COM
  Z06.21
            QQSORT
                             8 K
                                  Object for PASCAL - Quicker SORT
  Z06.22
            QSORT
                     .COM
                             7 K
                                  PASCAL - SORT
  Z06.23
            QSORT
                     .LIB
                             1 K
                                  Subroutines for PASCAL SORT
  Z06.24
                             7 K
                                  Source for PASCAL SORT
            QSORT
                     .PAS
  Z06.25
            RCPDAT
                     .XXX
                             2 K
                                  RECIPE program DATA
  Z06.26
            RCPDAT
                     .YYY
                             1 K
                                  RECIPE program DATA
  Z06.27
            RCPDAT
                             1 K
                     .MST
                                  RECIPE program
  Z06.28
                     .COM
                                  RECIPE program
            RECIPE
                            15K
  Z06.29
            RECIPE
                     .PAS
                            20 K
                                  Source for RECIPE program
  Z06.30
            SHELL
                     .PAS
                             3 K
                                  PASCAL SHELL sort
  Z06.31
            SHELL
                     .COM
                             7 K
                                  Object PASCAL SHELL sort
  Z06.32
            SHELL
                     .LIB
                             1 K
                                  Subroutines for PASCAL SHELL sort
7, ZD6.33
                                  1981 SNOOPY CALendar
            SNOOPY81.CAL
                             5 K
  Z06.34
            XREF
                     .PAS
                            10K
                                  Source for cross REFerence program
  Z06.35
            XREF
                     .COM
                            14K
                                  Cross REFerence program
  Z06.36
            ZCOMPAR
                     ,PAS
                             2 K
                                  Source for PASCAL file COMPARE utility
  Z06.37
            ZCOMPAR
                     .COM
                             7 K
                                  PASCAL file COMPARE utility
  Z06.38
            F1
                     .DAT
                             1 K
                                  Demo for ZCOMPAR
  Z06.39
            F2
                     .DAT
                             1 K
                                  Demo for ZCOMPAR
  Z07 55625 -CATALOG.007
                                  Contents of Pascal Z Users Group Volume 07
                             2k
                                                                     SEE SIGMUE V.25
  Z07
            -CATALOG.ACK
                             1k
                                  Acknowledgement file
                                                                        (PMU6 V-77
  Z07
            ABSTRACT.007
                                  Comments on Pascal Z Volume 07
                             3 k
  Z07
            CRCKFILE.007
                                  CRC of Pascal Z Volume 07
                             1 k
  Z07.01
            DATABASE.DOC
                            32K
                                  DATABASE SEED program DOC by DR. BOWLES
  Z07.02
            DBBUILDE.CPM
                            22 K
                                  DATABASE SEED BUILDER by DR. BOWLES
  Z07.03
            DBDEMO
                     .CPM
                             1 K
                                  DATABASE SEED DEMO by DR. BOWLES
                                  DATABASE SEED program by DR. BOWLES
  Z07.04
                     .1
            DBUNIT
                             8 K
  Z07.05
            DBUNIT
                     .2
                            19K
                                  DATABASE SEED program by DR. BOWLES
                                  DATABASE SEED program by DR. BOWLES
  Z07.06
            DBUNIT
                     .3
                            22K
  Z07.07
                           17K
                                  DATABASE SEED program by DR. BOWLES
            DBUNIT
                     . 4
            DBUNIT
                     .CPM
  Z07.08
                             1 K
                                  DATABASE SEED program by DR. BOWLES
  Z07.09
            SGEN
                     .COM
                             2 K
                                  BIOS for greater than 2 system tracks
  Z07.10
            SGEN
                     .MAC
                            10K
                                  MAC source for multi-track BIOS
  Z07.11
            MACROZ
                     .MAC
                            18K
                                  MACROS for generating multi-track BIOS
  Z07.12
            CLIB
                     . MAC
                             9 K
                                  MACROS for generating multi-track BIOS
```

ZU5.42

13

SGEN

DOC

5 K

HANOI

2k

```
Z07.14
                         40 K
          BSORT
                   .ASM
                                Fixed length disk SORT program source
Z07.15
          BSORT
                   .com
                          4K
                                Fixed length disk SORT program
Z07.16
          BSORT
                   .NOT
                          4K
                                Fixed length disk SORT program
                   .PAS
                          3 K
Z07.17
          PGLST
                                Print format program source
                          8K
Z07.18
                   .COM
                                Print format program
          PGLST
Z07.19
                   .NOT
                          1 K
                                Print format program
          PGLST
Z07.20
                          6 K
                                Data file for PGLST
          W3 UA
                   .LIB
208 586 17 -CATALOG.008
                          1 k
                                Contents of Pascal Z Users Group Volume 8
          -CATAOO8.ACK
                          2k
                                Acknowledgement file
                                                              SEE STEMUE V.27
Z08
          CRCKLIST.008
                          1k
                                Checksum file
Z08.01
                   .SRC
                          2 K
                               AND utility routine
          AND
                         16K
                   .SRC
                               APU test routine
Z08.02
          APUT
                                Advanced Terminal system LIBrary file
                          1 K
Z08.03
          ATSLIB
                   .REL
                          2 K
                   .SRC
                                Outputs binary word to console as string
Z08.04
          BITTER
Z08.05
          CONSRC
                   .DOC
                         51 K
                                Confidence tests operation manual
Z08.06
          CONTESTS.COM
                         27 K
                                Main driver for ATS confidence tests
Z08.07
          CONTESTS . PAS
                         30K
                                Main driver for ATS confidence tests
                         11K
                                CPU TEST routine used in the MCP
Z08.08
          CPUTST
                   .SRC
                          7 K
Z08.09
          CRCGEN
                   .ASM
                                Down-loads CRC program to GCP & begins execution
                          1 K
Z08.10
                   .PAS
                                Disk TEST routine
          DTST
                          1 K
                                Utility routine
Z08.11
          GETCHAR .SRC
                          8K
Z08.12
          GOCRCGEN.ASM
                                Begins execution
Z08.13
                   .REL
                          1 K
          LIB
                                PASCAL Z LIBrary file
Z08.14
          LOGIAND
                   .SRC
                          1 K
                                Logical AND utility routine
                          1 K
Z08.15
          LOGIOR
                   .SRC
                                Logical OR utility routine
Z08.16
          MEMTST
                   .SRC
                         17 K
                                MCP ram TEST routine
Z08.17
          SERT
                   .SRC
                          9 K
                                UART test routine
                                SAVE GCPMON as down-loadable COM file
Z08.18
          TESTSAVE ASM
                          7 K
ZO9 560% -CATALOG.009
                                Contents of Pascal Z Users Group volume 9
Z09
          -CATADD9.ACK
                               Acknowledgement file
                                                           SEE STEMUS V.28
Z09
          CRCKLIST.009
                               Checksum file
Z09.01
          LIBRARY .DOC
                          4K
                               A small Library
                   .REL
Z09.02
          ASL
                          2 K
                               A small Library
Z09.03
          CHAIN
                          1 K
                   .REL
                               A Small Library
Z09.04
          CHAIN
                   .SUB
                          1 K
                               A Small Library
Z09.05
          COMPILE .SUB
                          1 K
                               A small Library
Z09.06
          HALT
                   .REL
                          1 K
                               A small Library
Z09.07
          HALT
                   .SRC
                          1 K
                               A small Library
Z09.08
          LIFE
                   .COM
                         10K
                               Variations of LIFE
Z09.09
          LIFE
                   .PAS
                         9 K
                                Variations of LIFE
Z09.10
          LIFE-C
                   .COM
                         10K
                               Variations of LIFE
Z09.11
          LIFE-C
                   .C
                          7 K
                                Variations of LIFE
Z09.12
          CAVEO
                          1 K
                               CAVE update
Z09.13
          CAVE1
                          1 K
                               CAVE update
Z09.14
          CAVE2
                          1 K
                               CAVE update
Z09.15
          CAVE3
                          1 K
                               CAVE update
Z09.16
          CAVE4
                          1 K
                               CAVE update
Z09.17
          CAVE5
                          1 K
                               CAVE update
Z09.18
          WADUZIT .COM
                          6 K
                               Waduzit do?
Z09.19
          WADUZIT .DOC
                          4K
                               Waduzit do?
Z09.20
          WADUZIT .PAS
                          7 K
                               Waduzit do?
Z09.21
          NAD
                   .COM
                         18K
                               NAD Accounts Receivable system
Z09.22
          NAD
                   .PAS
                         12K
                               NAD Accounts Receivable system
Z09.23
          NAME&ADD.DOC
                          6 K
                               NAD Accounts Receivable system
Z09.24
          RECEIVAB.COM
                         25K
                               NAD Accounts Receivable system
Z09.25
          RECEIVAB.PAS
                         17K
                                NAD Accounts Receivable system
Z09.26
          ACTTREC .DOC
                         12K
                                NAD Accounts Receivable system
Z09.27
                                Simple doctor BILLing programs
          DISKBILL.PAS
                         20 K
Z09.28
          RECMAKE .PAS
                          9 K
                                Simple doctor billing programs
Z09.29
                   .SRC
          ANDMSK
                          1 K
                               Home remote control programs
Z09.30
          EXORG
                   .SRC
                          2 K
                               Home remote control programs
Z09.31
          COMPARE .PAS
                          3 K
                                Home remote control programs
Z09.32
                   .SRC
          ORMSK
                          1 K
                                Home remote control programs
Z09.33
          REMOTE
                   SRC
                          2K
                                Home remote control process
```

```
Z09.34
          PROG
                   .DOC
                           2 K
                                Home remote control programs
Z10 (5562
          -CATALOG.010
                                Contents of Pascal Z Users Group volume 10
Z10.01
          ABSTRACT.010
                                Pascal Z Users Group commentary
                                                                     SEE 525M45 V.62
Z10.02
                   .COM
                           3 K
                                Disk TEST diagnostic
          DTST
Z10.03
          DTST
                   .DOC
                          12K
                                Disk TEST diagnostic
                          23 K
                                Disk TEST diagnostic
Z10.04
                   .Z80
          DTST
Z10.05
          DOCOMM
                   .PAS
                           5K
                                Formatting program
                           3 K
Z10.06
          DOCOMM
                   .REL
                                Formatting program
Z10.07
          DOTEXT
                   .PAS
                           5K
                                Formatting program
                           3 K
                                Formatting program
Z10.08
          DOTEXT
                   .REL
                           5K
          GLOBALS
                   .TOP
                                Formatting program
Z10.09
                          18K
                                Formatting program
          KFORMAT
                   .COM
Z10.10
                           6 K
                   .DOC
                                Formatting program
Z10.11
          KFORMAT
          KFORMAT
                                Formatting program
                   . PAS
                           6 K
Z10.12
                           6 K
Z10.13
          KFORMAT
                   .REL
                                Formatting program
Z10.14
          KFORMAT
                   .SUB
                           1 K
                                Formatting program
Z10.15
          KFORMAT
                   .SYM
                           3 K
                                Formatting program
                           1 K
Z10.16
          KFORMAT
                   .TYP
                                Formatting program
                   .TOP
                           1 K
                                Formatting program
Z10.17
          STDFUNC
                   .PAS
Z10.18
          STDIO
                           4K
                                Formatting program
                           1 K
                   .PRM
Z10.19
          STDIO
                                Formatting program
                           4K
Z10.20
          STDIO
                   .REL
                                Formatting program
Z10.21
          PARTA
                   .PAS
                          15K
                                Pretty Print
Z10.22
                   .PAS
                          17K
                                Pretty Print
          PARTB
                          11K
Z10.23
          PARTC
                   .PAS
                                Pretty Print
Z10.24
          PRETTY
                   .DOC
                          10 K
                                Pretty Print
                   .PAS
Z10.25
          PRETTY
                           1 K
                                Pretty Print
Z11 856 63
          -CATALOG.011
                                Contents of Pascal Z Users Group volume 11
Z11
          ABSTRACT.011
                                Pascal Z commentary
                                                                 SEE STEMUE U. 63
Z11.01
          ALPHABET.COM
                           9 K
                                NAD program
Z11.02
          ALPHABET . PAS
                           5 K
                                NAD program
Z11.03
                                NAD program
          NAD-3
                   .COM
                          26 K
Z11.04
                   .PAS
          NAD-3
                          23K
                                NAD program
Z11.05
          NAD3ADD .DOC
                          11K
                                NAD program
Z11.06
          RECEIVA1.COM
                         28K
                                NAD program
Z11.07
                                NAD program
          RECEIVA1.DOC
                          10 K
Z11.08
          RECEIVA1.PAS
                          21K
                                NAD program
Z11.09
          COPYFST3.ASM
                          26 K
                                Fast COPY program
Z11.10
          COPYFST3.COM
                           2 K
                                Fast COPY program
Z11.11
          COPYFST3.DOC
                                Fast COPY program
                          26 K
Z11.12
          FCOUNT
                   .PAS
                          10K
                                Character/line COUNT in file
Z11.13
          FILEDUMP.PAS
                           2 K
                                File DUMP utility
Z11.14
          FINDHI
                   .PAS
                           5K
                                Search for leading bit
Z11.15
          NEWFILE .PAS
                           1 K
                                Quick NEWFILE create program
Z11.16
          REMOVECC.PAS
                          10K
                                Digraphs of unprintable characters
Z11.17
          TRIMCOLS.PAS
                           8K
                                TRIMs COLumn Length
Z12 556 64
          -CATALOG.012
                                Contents of Pascal Z Users Group volume 12
Z12
                                Pascal Z Users Group commentary SEE SAGMUE V.64
          ABSTRACT.012
Z12.01
          INSTALL .PAS
                           4K
                                NAD extensions
Z12.02
          INSTALL .COM
                           9 K
                                NAD extensions
Z12.03
          LABEL
                   .PAS
                           4K
                                NAD extensions
Z12.04
          LABEL
                   .COM
                          10K
                                NAD extensions
Z12.05
          LOCATE
                   .PAS
                           5 K
                                NAD extensions
Z12,06
          LOCATE
                   .COM
                          14K
                                NAD extensions
Z12.07
          LOCACCTS.PAS
                           4K
                                NAD extensions
Z12.08
          LOCACCTS.COM
                          12K
                                NAD extensions
Z12.09
          QUERY
                   .PAS
                           1 K
                                PASCAL utilities
Z12.10
          QUERY
                   .SRC
                           3 K
                                PASCAL utilities
                   .PAS
Z12.11
          INTEGER
                           1 K
                                PASCAL utilities
Z12.12
          INTEGER
                   .SRC
                           3 K
                                PASCAL utilities
Z12.13
          CLEAR
                   .PAS
                           1 K
                                PASCAL utilities
          PROMPT
Z12.14
                   .PAS
                           1 K
                                PASCAL utilities
```

B M

S

```
Z12.16
                     .PAS
                             1 K
                                  PASCAL utilities
            ERASE
 Z12.17
            ERASE
                     .SRC
                             2 K
                                  PASCAL utilities
 Z12.18
                             1 K
                     .PAS
            REPCHAR
                                  PASCAL utilities
                             2 K
 Z12.19
                     .SRC
                                  PASCAL utilities
            REPCHAR
                     .PAS
                                  PASCAL utilities
 Z12.20
                             1 K
            MOVE
 Z12.21
                             1 K
                     .SRC
                                  PASCAL utilities
            MOVE
            LCASE
                             1 K
  Z12.22
                     .PAS
                                  Basic equivalents
                             3 K
 Z12.23
            LCASE
                     . SRC
                                  Basic equivalents
  Z12.24
            UCASE
                     .PAS
                             1 K
                                  Basic equivalents
  Z12.25
                     .SRC
                             3 K
            UCASE
                                  Basic equivalents
                     .PAS
                             2 K
                                  Basic equivalents
  Z12.26
            STR
                            6 K
                     .SRC
 Z12.27
            STR
                                  Basic equivalents
 Z12.28
                     .PAS
                             1 K
            SPACE
                                  Basic equivalents
                             2 K
 Z12.29
            SPACE
                     .SRC
                                  Basic equivalents
                             1 K
 Z12.30
            POWER
                     .PAS
                                  Basic equivalents
                     .SRC
                             4K
 Z12.31
            POWER
                                  Basic equivalents
 Z12.32
            RIGHT
                     .PAS
                             1 K
                                  Basic equivalents
 Z12.33
            RIGHT
                     .SRC
                             3 K
                                  Basic equivalents
                     .PAS
                             1 K
 Z12.34
            MID
                                  Basic equivalents
 Z12.35
            MID
                     .SRC
                             ЗΚ
                                  Basic equivalents
 Z12.36
            LEFT
                     .PAS
                             1 K
                                  Basic equivalents
 Z12.37
            LEFT
                     .SRC
                            3 K
                                  Basic equivalents
 Z12.38
            INPUT
                     .PAS
                            1 K
                                  Basic equivalents
 Z12.39
            CORRECT
                     .PAS
                            1 K
                                  Basic equivalents
 Z12.40
                     .PAS
                           19K
                                  Cross REFerence
            XREF
 Z12.41
            XREF
                     .COM
                           28K
                                  Cross REFerence
 Z12.42
            HANDCALC.PAS
                           14K
                                  Scientific CALCulator
                           24K
 Z12.43
            HANDCALC.COM
                                  Scientific CALCulator
 Z12.44
            RANDOM
                     .SRC
                            2 K
                                  RANDOM number generation
 Z12.45
                            1 K
            RANDOM
                     .REL
                                  RANDOM number generation
 Z12.46
            RANDOM
                     .LIB
                            1 K
                                  RANDOM number generation
 Z12.47
                            9 K
                                  RANdom number TEST program
            RANTEST
                     .COM
Z12.48
                     .PAS
                            1 K
            RANTEST
                                  RANdom number TEST program
 Z13 536 69
           -CATALOG.013
                                  Contents of Pascal Z Users Group volume 13
 Z13
            ABSTRACT.013
                                  Notes on Pascal Z volume 13
                                                                     SEE SIGMUE V.69
                     .COM
 Z13.01
            ANIMALS
                           20 K
                                  Animal game
 Z13.02
            ANIMALS
                           39K
                     .PAS
                                  Animal
                                         game
 Z13.03
            BEASTS
                            2K
                     .QQQ
                                  Animal game
 Z13.04
            BEASTS
                     .QQX
                            1 K
                                  Animal game
 Z13.05
            BENCH
                     .COM
                            4K
                                  Prime number generator
 Z13.06
            BENCH
                     .PAS
                            2K
                                  Prime number generator
 Z13.07
            CUB++
                     .DAT
                            1 K
                                  3D computer graphics
 Z13.08
            CUBE1
                     .DAT
                            1 K
                                  3D computer graphics
 Z13.09
            CUBE2
                     .DAT
                            1 K
                                  3D computer graphics
 Z13.10
            UTIL
                     .PAS
                            2 K
                                  3D computer graphics
 Z13.11
            FILES
                     .PAS
                            3 K
                                  3 D
                                     computer graphics
            GRAPHICS.COM
 Z13.12
                           34K
                                  3D computer GRAPHICS
            GRAPHICS.PAS
 Z13.13
                             4K
                                  3 D
                                     computer GRAPHICS
 Z13.14
            INIT
                     .PAS
                            1 K
                                  3D computer graphics
 Z13.15
            MAKE
                     .PAS
                           14K
                                  3D computer graphics
 Z13.16
            PYRAMID
                            1 K
                     .DAT
                                  3D computer graphics
 Z13.17
            SOLID
                     .DAT
                            3 K
                                  3D computer graphics
 Z13.18
            INSTALL .COM
                           18K
                                  Terminal INSTALLation program
            INSTALL .DOC
 Z13.19
                            4K
                                  Terminal INSTALLation program
 Z13.20
            INSTALL .PAS
                           20 K
                                  Terminal INSTALLation program
 Z13.21
            LEGAME
                     .COM
                           14K
                                  Terminal installation program
 Z13.22
            LEGAME
                           12K
                                  Terminal installation program
                     .PAS
 Z13.23
            TERMINFO.PRM
                            3 K
                                  TERMinal installation information
 Z13.24
                     .FIL
                            1 K
            TERMIO
                                  TERMinal installation program
 Z13.25
            TERMIO
                     .LIB
                            2 K
                                  TERMinal installation program
 Z13.26
            TERMIO
                     .PAS
                             4K
                                  TERMinal installation program
 Z13.27
            TERMIO
                            1 K
                     .VAR
                                  TERMinal installation program
 Z13.28
            MILEAGE .COM
                            BK
                                  Averaging MPG computation
 Z13.29
            MILEAGE .PAS
                            3 K
                                  Averaging MPG computation
```

```
TREE2
                   .PAS
                                Binary TREE structure
Z14 55671 -CATALOG.014
                                Contents of Pascal Z Users Group volume 14
                                                                   SEE SAGMUE U. 71
Z14
                                Notes on Pascal Z volume 14
          ABSTRACT.014
Z14
                   .COM
                                CRC generation program
          CRCK
Z14.01
                   .COM
                         12K
                                AGE computation
          AGE
                   .PAS
                          3 K
                                AGE computation
Z14.02
          AGE
                          1 K
Z14.03
          BITBANG
                   .REL
                                BIT manipulation for PASCAL Z
Z14.04
          BITBANG .SRC
                          4K
                                BIT manipulation for PASCAL Z
Z14.05
          DEMO
                   . COM
                          7 K
                                Bit manipulation DEMO
                          2K
Z14.06
          DEMO
                   .PAS
                                Bit manipulation DEMO
                          7 K
Z14.07
                   .COM
                                Bit TEST program
          TEST
                          2K
Z14,08
          TEST
                   .PAS
                                Bit TEST program
                   .COM
                         39K
                                Statistical analysis database
Z14.09
          DATA
                         27 K
Z14.10
          DATA
                   .PAS
                                Statistical analysis database
                         26 K
                                LISP - in PASCAL!
Z14.11
          LISP
                   .PAS
                  .COM
                         12K
                                Program optimization analysis
Z14.12
          PROFILE
Z14.13
          PROFILE .DOC
                          7 K
                                Program optimization analysis
Z14.14
          PROFILE .PAS
                          4K
                                Program optimization analysis
                         12K
Z14.15
          PROMAIN .SRC
                                Program optimization analysis
Z14.16
          RANDOMIZ.PAS
                          1 K
                                RANDOM number generation function
                                RANDOM number generation function
                          1 K
Z14.17
          RNDMIZER . PAS
Z14.18
                         27 K
                                STATISTIcal analysis package
          STATISTI.COM
Z14.19
                         16K
                                STATISTICal analysis package
          STATISTI.PAS
Z14.20
          STATPACK, PAS
                          3 K
                                STATistical analysis PACKage
                         11K
Z14.21
          TREE4
                   .COM
                                Demo program
Z14.22
          TREE4
                   .PAS
                          9 K
                                Demo program
                                                                 SEE STEMUS V.72
Z1557672
          -CATALOG.015
                                Contents of Pascal Z Users Group volume 15
                                Comments from Pascal Z Users Group on volume 15
Z15
          ABSTRACT.015
Z15.01
          1
                   .ASM
                          4K
                                Extended SUBMIT
Z15.02
                   .COM
                          1 K
                                Extended SUBMIT
Z15.03
          ACOUSTIC.PAS
                          6 K
                                Acoustic DCMODEM program
Z15.04
                   . MAC
          CCP
                         18K
                                Notes on CCP
Z15.05
          CHECKBK .COM
                         19K
                                Checkbook program
Z15.06
          CHECKBK .PAS
                         11K
                                Checkbook program
Z15.07
          CIRCQUE .PAS
                          2K
                                CIRcular QUEue
Z15.08
          CLOCK
                   .PAS
                          7 K
                                CLOCK chip MSM5382
Z15.09
                  .LIB
          CPMEQUS
                          1 K
                                Notes on CP/M
Z15.10
          CRT
                   .PAS
                          3 K
                                Cursor control
Z15.11
          DCMODEM .PAS
                          6 K
                                DC Hayes MODEM program
Z15.12
          FMAP
                   .COM
                          4K
                                Updated catalog mapper
Z15.13
          IF
                          1 K
                   .COM
                                Extended SUBMIT
Z15.14
          KALENDER.COM
                         12K
                                Calendar program
Z15.15
          KALENDER DOC
                          1 K
                                Calendar program documentation
Z15.16
          KALENDER . PAS
                          7 K
                                Calendar program
Z15.17
          NEWDISC .COM
                         12K
                                Serialization for FMAP
Z15.18
          NEWDISC .DOC
                          3 K
                                Documentation of serialization for FMAP
Z15.19
          NEWDISC .PAS
                         19K
                                Serialization for FMAP
Z15.20
          NOTATE
                   .ASM
                          3 K
                                Add comments to ASM files
Z15.21
          NOTATE
                   .COM
                          1 K
                                Add comments to ASM files
Z15.22
          PARMS
                   .PAS
                          3 K
                                Parsing input
Z15.23
          PAY
                   .COM
                          9K
                                Mortgage PAYment program
          PAY
Z15.24
                                Mortgage PAYment program
                   .PAS
                          2K
Z15.25
          REPEAT
                   .COM
                          1 K
                                Perform SUBMIT 'n' times
Z15.26
          REPEAT
                          1 K
                   .Doc
                                Perform SUBMIT 'n' times
Z15.27
          TERMINAL.COM
                          9 K
                                Dumb TERMINAL program
Z15.28
          TERMINAL.PAS
                          5K
                                Dumb TERMINAL program
          UTILITY .PAS
Z15.29
                          1 K
                                Lower to upper case
Z15.30
          XREFPRN ASM
                         23K
                                Direct output to printer
Z15.31
          XREFPRN .COM
                          3 K
                                Direct output to printer
                                                                      SEE SJEMUG V.80
Z16 55690
          -CATALOG.016
                                Contents of Pascal Z Users Group volume 16
Z16
          ABSTRACT .016
                                Comments from Pascal Z Users Group on volume 16
Z16
          CRC
                   .COM
                                Checksum program
Z16.01
```

Simulated 2 player ARTILler duel

Z13,31

ARTIL

.DOC

3 K

```
Z16.02
           ARTIL/M .PAS
                          10K
                                Simulated 2 player ARTILlery duel
 Z16.03
           ARTIL/Z .COM
                          13K
                                Simulated 2 player ARTILlery duel
                                Simulated 2 player ARTILlery duel
 Z16.04
           ARTIL/Z .PAS
                          11K
 Z16.05
                           2 K
           CALENDAR.DOC
                                Snoopy and pinup
                           8K
 Z16.06
           CHECKLN .COM
                                Write dollar amounts in text form
                                Write dollar amounts in text form
 Z16.07
           CHECKLN .PAS
                           4K
                   .PSP
                           1 K
                                PASCAL/M & UCSD console ctl for Micro-Term ACT-IV
 Z16.08
           CONACT
                           4K
                                PASCAL/M & UCSD console ctl for Micro-Term ACT-IV
 Z16.09
           CONSOLE .DOC
                                PASCAL/M & UCSD console ctl for Micro-Term ACT-IV
 Z16.10
           GOTOXY
                    .PSP
                           2 K
Z16.11
           PINUP82 .CAL
                           9K
                                1982 - bare facts CALendar
                           1 K
                                RANDOM number generator
 Z16.12
           RANDOM
                    .PSP
 Z16.13
                    .DOC
                           5K
                                Speed tests in a variety of languages
           SAMPLE
                           2 K
 Z16.14
           SAMPLE/C.BAS
                                Speed tests in a variety of languages
 Z16.15
           SAMPLE/C.C
                           1 K
                                Speed tests in a variety of languages
                           4K
                                Speed tests in a variety of languages
 Z16.16
           SAMPLE/C.COM
                           1 K
                                Speed tests in a variety of languages
 Z16.17
           SAMPLE/M.PAS
 Z16.18
           SAMPLE/N.BAS
                           1 K
                                Speed tests in a variety of languages
 Z16.19
           SAMPLE/S.BAS
                           2 K
                                Speed tests in a variety of languages
                           3 K
 Z16.20
           SAMPLE/S.COM
                                Speed tests in a variety of languages
                           6 K
 Z16.21
           SAMPLE/Z.COM
                                Speed tests in a variety of languages
 Z16.22
           SAMPLE/Z.PAS
                           1 K
                                Speed tests in a variety of languages
 Z16.23
           SIGHTRED.COM
                          15K
                                Spherical triangle calcs - celestial navigation
 Z16.24
           SIGHTRED.DOC
                           2 K
                                Spherical triangle calcs - celestial navigation
 Z16.25
           SIGHTRED.PAS
                           4K
                                Spherical triangle calcs - celestial navigation
 Z16.26
           SNOOPY82.CAL
                           5K
                                Last chance for 1982
                                Modification of NAD-3 (name and address)
 Z16.27
                    .DOC
                           2 K
           SORT
 Z16.28
                    .PAS
                           4K
                                Modification of NAD-3 (name and address)
           SORT
                                Modification of NAD-3 (name and address)
 Z16.29
           SRTPRT
                    .PAS
                           2 K
 Z16.30
           TED
                          17 K
                    .COM
                                Simple text EDitor
 Z16.31
           TED
                    .DOC
                          23 K
                                Simple text EDitor
 Z17 55581
          -CATALOG.017
                                Contents of Pascal Z UG volume 17 SEE SIGMUS V.3)
 Z17
                                Comments from Pascal Z UG on volume 17
           ABSTRACT.017
 Z17.01
           CONSTS
                    .PAS
                           1 K
                                Constant declarations
 Z17.02
                                Text COPY procedure
           COPY
                    .SRC
                           4K
 Z17.03
           DISK
                    .DOC
                          11K
                                Documentation file for this disk
 Z17.04
           FF
                    .COM
                           6 K
                                Resets printer, issues FF for IDS 'Paper Tiger'
 Z17.05
           FF
                    .PAS
                           1 K
                                Resets printer, issues FF for IDS 'Paper Tiger'
 Z17.06
           FF
                    .SUB
                           1 K
                                Resets printer, issues FF for IDS 'Paper Tiger'
 Z17.07
           GETFILES.PAS
                           2 K
                                Read FILE names
 Z17.08
           IMPLEMNT.DOC
                           5K
                                Documentation file for GETFILES
 Z17.09
           PP
                    .COM
                          19K
                                Pretty print
 Z17.10
           PP
                    .PAS
                          20 K
                                Pretty print
 Z17.11
           PP
                    .SUB
                           1 K
                                Pretty print
 Z17.12
           PRETTY
                    .SUB
                                Pretty print
                          1 K
 Z17.13
          PRINT
                    .COM
                          12K
                                PRINT utility - set for IDS 'Paper Tiger'
 Z17.14
           PRINT
                    .PAS
                           7 K
                                PRINT utility - set for IDS 'Paper Tiger'
 Z17.15
           PRINT
                    .SUB
                           1 K
                                PRINT utility - set for IDS 'Paper Tiger'
 Z17.16
           PROCS
                    .PAS
                           2 K
                                Declares procedures
 Z17.17
           SPACE
                    .SRC
                           1 K
                                Determines free SPACE
 Z17.18
           SYSTEM
                    .TEX
                           9 K
                                Test processor
 Z17.19
           SYSTP
                    .TEX
                          45K
                                Test processor
 Z17.20
           SYSUT
                    .TEX
                           9 K
                                Test processor
 Z17.21
           TP
                    .COM
                          25K
                                Test processor
 Z17.22
           TP
                    .PAS
                          40K
                                Test processor
 Z17.23
           TP
                    .SUB
                           1 K
                                Test processor
 Z17.24
           TYPES
                    .PAS
                           1 K
                                TYPE definitions
 Z17.25
           XREF
                                Cross REFerence program
                    .COM
                          11K
Z17.26
           XREF
                    .PAS
                           6 K
                                Cross REFerence program
 Z17.27
           XREF
                    .SUB
                           1 K
                                Cross REFerence program
 Z18 556 8 -CATALOG.018
                                Contents of Pascal Z volume 18 - October 27, 1982
 Z18
           CRC
                    .COM
                                CRC generation program
                                                                    SEE SHOWING V. PU
 Z18
           ABSTRACT .018
                                Comments on Pascal Z volume 18
 Z18.01
           ARCTAN
                    .INT
                           1 K
                                External ARCTANgent function
```

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718.02

ARCTAN

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```
Z18.03
                          4K
          CONVERTM.INT
                                Microsoft CONVERT utility
Z18.04
          COS
                          1 K
                                External COSine function
                   .INT
Z18.05
                          2 K
                                External COSine function
          COS
                   .PAS
Z18.06
          CUSTOMIZ.INT
                          1 K
                                System CUSTOMIZation
                   .INT
Z18.07
          DEBUG
                          1 K
                                DEBUG procedure
Z18.08
                          1 K
                                File ERASE
          ERASE
                   .INT
                   .COM
                         23 K
                                Run time enviornment
Z18.09
          EXEC
Z18.10
          EXP
                   .INT
                          2 K
                                External EXPonentiation function
Z18.11
          EXP
                   .PAS
                          2 K
                                External EXPonentiation function
                          5K
Z18.12
                   .INT
                               GRAph preparation - external procedure
          JGRAF
Z18.13
          JGRAF
                   .PAS
                          8 K
                                GRAph preparation - external procedure
                         16K
                                JRT ASseMbler
Z18.14
          JRTASM
                   .INT
                               JRT PASCAL compiler
          JRTPAS2 .COM
                         21 K
Z18.15
                          1 K
                               STATistics - external procedure
Z18.16
          JSTAT
                   .INT
Z18.17
          JSTAT
                   .PAS
                          3 K
                                STATistics - external procedure
                          2 K
Z18.18
          LETTERS
                   .INT
                                Block LETTERS procedure
Z18.19
                   .INT
                          4K
                                LINKER
          LINKER
                          1 K
Z18.20
                   .INT
                                External Logrithym function
          LN
                   .PAS
                          2K
Z18.21
                                External Logrithym function
          LN
                         13 K
Z18.22
          PASCAL
                   .LIB
                                JRT PASCAL compiler components
Z18.23
                         21 K
                                JRT PASCAL compiler components
          PASCALO .INT
Z18.24
          PASCAL1
                   .INT
                          7 K
                                JRT PASCAL compiler components
Z18.25
          PASCAL2 .INT
                          5K
                               JRT PASCAL compiler components
Z18.26
          PASCAL3 .INT
                          9 K
                                JRT PASCAL compiler components
Z18.27
                          1 K
                               JRT PASCAL compiler components
          PASCAL4 .INT
Z18.28
          RENAME
                   .INT
                          1 K
                               RENAME a file
Z18.29
          RESETBIT.ASM
                          1 K
                               Sample ASM procedure
Z18.30
          SETBIT
                   .ASM
                          1 K
                               Sample ASM procedure
Z18.31
          SIN
                          1 K
                               External SINe function
                   .INT
Z18.32
          SIN
                   .PAS
                          1 K
                                External SINe function
                               External SQuare RooT function
Z18.33
          SQRT
                   .INT
                          1 K
Z18.34
                          1 K
          SQRT
                   .PAS
                               External SQuare RooT function
Z18.35
          TESTBIT .ASM
                          1 K
                               Sample ASM procedure
Z19 55685 -CATALOG.019
                               Contents of ZUG volume 19 - November 3, 1982 v.ss
Z19
          ABSTRACT.019
                                Comments from Pascal Z UG
Z19.01
                   .COM
          TREE5
                         14K
                               Binary tree w/disc storage, delete & relink
                               Binary tree w/disc storage, delete & relink
Z19.02
          TREE5
                   .DOC
                          4K
Z19.03
          TREE5
                   .PAS
                          7 K
                               Binary tree w/disc storage, delete & relink
                   .PAS
Z19.04
          DISC
                          3 K
                               Disc storage for TREE5
Z19.05
          ORDER
                   .PAS
                          1 K
                               Relink for TREE5
Z19.06
          DELETE
                   .PAS
                          2K
                               Delete for TREE5
Z19.07
          MENU
                   .PAS
                          3 K
                               Menu for TREE5
Z19.08
          DATA
                   .DAT
                          2 K
                               Data for TREE5
Z19.09
          SIGNS
                   .COM
                         10K
                               Print string of 7 letters in large type
Z19.10
          SIGNS
                   .DOC
                          3 K
                               Print string of 7 letters in large type
Z19.11
                   .PAS
          SIGNS
                          4K
                               Print string of 7 letters in large type
Z19.12
          FONT
                          1 K
                   .DAT
                               Font for SIGNS
Z19.13
          RUNOFF
                   .COM
                         21 K
                               Text formatter patterned after DEC PDP-11 program
Z19.14
          RUNOFF
                         27 K
                   .DOC
                               Text formatter patterned after DEC PDP-11 program
Z19.15
          RUNOFF
                   .PAS
                         27 K
                               Text formatter patterned after DEC PDP-11 program
          RUNOFF
Z19.16
                   .SUB
                          1 K
                               Text formatter patterned after DEC PDP-11 program
Z19.17
          PASDIR
                   .COM
                          6 K
                               Reads directory
Z19.18
          PASDIR
                   .PAS
                          2K
                               Reads directory
Z19.19
          REMOVECC.COM
                         10K
                               Remove/change high bits or control chars
Z19.20
          REMOVECC.PAS
                         10K
                               Remove/change high bits or control chars
Z19.21
          TRIMCOLS.COM
                         11K
                               Trims right column or trailing blanks
Z19.22
          TRIMCOLS.PAS
                          8 K
                               Trims right column or trailing blanks
Z19.23
          SUPERSUB.COM
                          3 K
                                Expanded SUBMIT
Z19.24
          SUPERSUB.ASM
                         20K
                                Expanded SUBMIT
Z19.25
          XSUB
                   .COM
                          8 K
                                Executes external programs via SUBMIT program
Z19.26
          XSUB
                   .PAS
                          6 K
                               Executes external programs via SUBMIT program
Z19.27
          PAUSE
                   .COM
                          1 K
                               Stops program, puts note on console, awaits input
Z19.28
          PAUSE
                   .SRC
                          1 K
                               Stops program, puts note on console, awaits input
Zen SIG 94
                                                                              38E
          -CATALOG.020
                          2K
                                Contents of Pascal Z Users Groun volume 20.336AuGV94
```

```
Z20
           ZUGVOL
                    .020
                            4K
                                 Comments on programs in this volume
 Z20.01
           TERMS
                    .DOC
                          17K
                                 DOC for dictionary of medical words/phrases
                           6 K
 Z20.02
           TERMS
                    .PAS
                                 Create dictionary of medical lab words/phrases
                    .PAS
                           6 K
                                 Initialization for TERMS
 Z20.03
           TINIT
                    .PAS
 Z20.04
           TPRINT
                            7 K
                                 PRINT program for TERMS
 Z20.05
                    .PAS
                          32K
           TER
                                 Terminal interface program for TERMS
                          13K
  Z20.06
           SUB
                    .COM
                                 Menu file to run major CP/M command files
                                 Menu file to run major CP/M command files
 Z20.07
           SUB
                    .PAS
                           8 K
  Z20.08
           HOLD
                    .COM
                           6 K
                                 Use w/SUB keeps responses from scroll off screen
                            1 K
  Z20.09
                    .PAS
                                 Use w/SUB keeps responses from scroll off screen
           HOLD
                    .COM
  Z20.10
           EPSON
                            8 K
                                 Epson MX menu file - compressed/emphasized print
                           3 K
                    .PAS
                                 Epson MX menu file - compressed/emphasized print
 Z20.11
           EPSON
 Z20.12
                    .COM
                           8K
                                 Okidata 82/83 menu file - compressed print etc
           OKI
                                 Okidata 82/83 menu file - compressed print etc
                           3 K
 Z20.13
           OKI
                    .PAS
 Z20.14
           INDEXER
                    .COM
                          17K
                                 Creates an index for any book
                    .DOC
                          13K
 Z20.15
           INDEXER
                                 Creates an index for any book
 Z20.16
           INDEXER
                    .PAS
                          26 K
                                 Creates an index for any book
                           1 K
                                 Creates an index for any book
 Z20.17
           INDEXER
                    .SUB
 Z20.18
                    .INX
                           4K
                                 Creates an index for any book
           PZKEY
                            4K
 Z20.19
           PZKEY
                    .TRE
                                 Creates an index for any book
 Z20.20
           MEMAVAIL.SRC
                           2 K
                                 Difference between top of user mem and stack
 Z20.21
           PAUSE
                    .SRC
                            1 K
                                 Msg to console, wait for keypressed, ret to CP/M
 Z20.22
           PAUSE
                    .COM
                           1 K
                                 Msg to console, wait for keypressed, ret to CP/M
                           8 K
 Z20.23
           XSUB
                    .COM
                                 Execution of external command programs
 Z20.24
                    .PAS
                           6 K
                                 Execution of external command programs
           XSUB
 Z20.25
                           2 K
                                 PIP, STAT, DIR via submit generated w/users program
           SUBMIT
                    .P
 Z20.26
           SUPERSUB.COM
                           зк
                                 Replacement for the submit program
 Z20.27
           SUPERSUB.ASM
                          20K
                                 Replacement for the submit program
 Z20.28
           DIRSCAN .COM
                           5 K
                                 Scans the directory
 Z20.29
           DIRSCAN .PAS
                           3 K
                                 Scans the directory
 Z20.30
           XDIRSCAN.SRC
                           2 K
                                 Scans the directory
 Z21 SI6 95
                           2k
           -CATALOG.021
                                 Contents of Pascal Z Users Group volume 21 556MUF V. 95
 Z21
           ZUGVOL
                    .021
                           2 K
                                 Comments on programs in this volume
 Z21.01
           CROWE
                    .Z80
                         142K
                                 CROWE Z80 Assembler
 Z21.02
           CROWE2
                    .COM
                          12K
                                 CROWE Z80 Assembler
 Z21.03
           CROWELET.TXT
                           4K
                                 CROWE Z80 Assembler
 Z21.04
           CROWLINK.Z80
                           8 K
                                 CROWE Z80 Assembler linker
 Z21.05
           REZ7/31
                    .ASM
                          34K
                                 Disassembler with TDL mnemonics
 Z21.06
           REZ7/31
                    .DOC
                          26 K
                                 Disassembler with TDL mnemonics
 Z21.07
           EPROM
                    .ASM
                           8 K
                                 PROM burner example
 Z21.08
           EPROM
                    .DOC
                           2 K
                                 PROM burner example
 Z22 5 2 6 97
                                                                                SEE
           -CATALOG.022
                                 Contents of Pascal Z Users Group volume 22 szemme 197
                           2k
 Z22
           ZUGVOL
                    .022
                           2 K
                                 Comments on programs in this volume
 Z22.01
           CCT
                    .COM
                           2 K
                                 Upgraded COMBINE - small files into a large
 Z22.02
           CCT
                    .ASM
                          26 K
                                 Upgraded COMBINE - small files into a large
 Z22.03
           CCT
                    .HEX
                           5K
                                 Upgraded COMBINE - small files into a large
 Z22.04
           CROSS
                    .COM
                          30 K
                                 Pascal Z cross ref - indent, line number program
 Z22.05
           CROSS
                    .DOC
                           5K
                                 Pascal Z cross ref - indent, line number program
 Z22.06
           CROSS
                    .PAS
                          20 K
                                 Pascal Z cross ref - indent, line number program
 Z22.07
           CROSS
                    .SUB
                           1 K
                                 Pascal Z cross ref - indent, line number program
 Z22.08
           BLOCK
                    .PAS
                          15K
                                 BLOCK routine for CROSS
 Z22.09
           INIT
                    .PAS
                           6 K
                                 Initialization routine for CROSS
 Z22.10
           INSYM
                    .PAS
                          16K
                                 Input symbol routine for CROSS
 Z22.11
           SIZE
                    .SRC
                           1 K
                                 Get SIZE routine for CROSS
 Z22.12
           PURGE
                    .COM
                           1 K
                                 Erase non-COM/PAS after compilation, - on H19
 Z22.13
           PURGE
                    .DOC
                           5K
                                 Erase non-COM/PAS after compilation, - on H19
Z22.14
           PURGE
                    . MAC
                           6 K
                                 Erase non-COM/PAS after compilation, - on H19
 Z22.15
           M80LIBOO.MAC
                          19K
                                 MACRO-80 version of Dig Research MAC asm lib
 Z22.16
           MACRO
                    .LIB
                          18K
                                 MAC assembler library from Digital Research
 Z22.17
                    .TXT
           FTOSTR
                           6 K
                                 Floating pt pkg demo
 Z22.18
           MATHPACK.COM
                          31 K
                                 Floating pt pkg
 Z22.19
           MATHPACK, PAS
                          20K
                                 Floating pt pkg
                                                                               SEE
 Z23 546 13 -CATALOG.023
                                 Contents of Pascal Z Users Groun volume 23 326M45 V.13/
```

```
Z23
                          4K
          ZUGVOL
                   .023
                               Comments on programs in this volume
Z23.01
          ALPH2INT.PAS
                          4K
                               Takes string & if accepted returns integer equiv
Z23.02
                   .SRC
                          1 K
          BEEP
                               Procedure to ring bell
Z23.03
          BLNKSCRN.SRC
                          1 K
                               Procedure to blink
                          2 K
Z23.04
          CASELIB .PAS
                               Accepts char, if LC returns UC, else returns input
                   .SRC
Z23.05
                          1 K
                               Procedure to input char
          CHARIN
Z23.06
          CHAROUT
                  .SRC
                          1 K
                               Procedure to output char
Z23.07
                   .SRC
                         11K
                               Calender clock master program, has menu
          CLOCK
Z23,08
          CLRHOM
                   .SRC
                          1 K
                               Procedure to clear screen and homes cursor
                               compares two ASCII strings of any length
Z23.09
          CMPTXT
                   .SRC
                          2K
Z23.10
          CONFINE .PAS
                          1 K
                               Returns standard deviation
                          2 K
                   .SRC
                               Locates cursor
Z23.11
          CRSR
Z23.12
                          2 K
          DATE
                   .SRC
                               Uses clock board
Z23.13
          DATENTIM.PAS
                          3 K
                               prints Date/Time from clock chip OKI MSM
                               Prints date/time from clock chip OKI MSM
Z23.14
          DATENTIM.SRC
                          5 K
                          3 K
Z23.15
          DECOMPOS.PAS
                               Matrix funct (algorithm 423) collected Alg of ACM
          DIG2INTE.SRC
Z23.16
                          1 K
                               Converts ASCII digits to integer values
                          2 K
Z23.17
          DRVLOG
                   .SRC
                               Routine to determine which drive is logged
Z23.18
          GAUSS
                   .PAS
                          2 K
                               Generates area under normal probability curve
                          2K
Z23.19
          GETEXT
                   .SRC
                               Routine to get text from console
                   .SRC
          HEXOUT
Z23.20
                          2 K
                               Hex print to console from calling program
Z23.21
          INITSEED.
                          1 K
                               Procedure for getting a seed by calling "Time"
                  .SRC
                          1 K
Z23.22
                               Outputs CR/LF to console
          KARET
Z23.23
          KBDIN
                   .SRC
                          2K
                               Checks keybourd, returns with ASCII in A
Z23.24
                          3 K
                               Procedure to use "HIPAD" to print oversize
          LEVEL
                   .PAS
                               Procedure to use "HIPAD" to print oversize
          LEVEL
                          7 K
Z23.25
                   .SRC
Z23.26
        LITEPEN
                  .SRC
                          2 K
                               Function to read port of light pen
Z23.27
          MEDIAN
                   .PAS
                          2 K
                               Determines median value of the array "List"
Z23.28
          MEDIAN
                   .SRC
                          4K
                               Determines median value of the array "List"
Z23.29
          MESIJ
                   .SRC
                          2 K
                               Prints the message to console
Z23.30
                          1 K
          MNANDVAR . PAS
                               Procedure to get mean/variance
Z23.31
                          2 K
          NAMEDATE.PAS
                               Changes integer date to month & day as strings
Z23.32
          NAMEDATE.SRC
                          5 K
                               Changes integer date to month & day as strings
Z23.33
          NEWPAGE .SRC
                          1 K
                               No comment
Z23.34
          PLOT
                   .PAS
                          4K
                               Plots Y & calc's as functions of X for M points
Z23.35
                  .SRC
          POINT
                          5 K
                               Reads Hipad via mid-port for X,Y cordinates
Z23.36
          POPSTATS.PAS
                          9 K
                               Calc's array of real #s via mean, mode, median etc
Z23.37
          POPSTATS.SRC
                         25K
                               Calc's array of real #s via mean, mode, median etc
Z23.38
                               Updated QQSORT by Ray Penley
          QQSORTR .PAS
                          6 K
Z23.39
          READQ
                   .SRC
                          1 K
                               Reads console but does not wait for CR
Z23.40
                         10K
          READREAL.PAS
                               Real var input from console in forgiving manner
Z23.41
          RNDKNUTH.LIB
                          7 K
                               The Knuth random Gen substractive method
Z23.42
          SELECT
                   .PAS
                          5K
                               Partial sort array, can be used to find Median
Z23.43
          SELECT
                   .SRC
                         11K
                               Partial sort array, can be used to find Median
Z23.44
          SMOOTH9 .PAS
                          2 K
                               Performs 9 pt data smoothing on input array
Z23.45
          SOLVE
                   .PAS
                          2 K
                               Works on vectors, algorithm 423 from ACM
Z23.46
          SOLVE
                   .SRC
                          6 K
                               Works on vectors, algorithm 423 from ACM
Z23.47
          STR2INTE.SRC
                          6 K
                               Converts string to integer value
Z23.48
          STREAM
                  .SRC
                          5K
                               Reads a stream from Hi-Pad
Z23.49
          T2TAILS .PAS
                          3 K
                               2-tailed probability for degrees of freedom
Z23.50
         TAB
                   .SRC
                          1 K
                               Sends a single TAB char
Z23.51
         TABS
                   .SRC
                          1 K
                               Sends multiple TAB characters
Z23.52
          TIME
                   .SRC
                          2 K
                               Reads a digit from the clock, put in string
Z23.53
          TSTMEDN .PAS
                          7 K
                               TEST program for MEDIAN
Z23.54
         TSTQSORT.PAS
                          2K
                               TEST program for QQSORTR
Z23.55
          USEPLOT .PAS
                          2 K
                               Used as shell to Plot
Z23.56
          USEWLREG.PAS
                          3 K
                               Program to test plot procedures
Z23.57
          WAVE
                   .SRC
                          5K
                               Fill array from Hi-Pad in stream mode
Z23.58
          WEEKDAY
                  .PAS
                          1 K
                               Function to change date to number from 0 to 6
Z23.59
          WEEKDAY .SRC
                          1 K
                               Function to change date to number from 0 to
Z23.60
          WLREG
                   .PAS
                          3 K
                               Weighted linear regression of Y against X
Z23.61
          ZELLER
                   .PAS
                          2 K
                               Given a date returns number of days since O A.D.
Z23.62
          ZELLER
                  .SRC
                          3 K
                               Given a date returns number of days since O A.D.
Z24 SIG VIV-CATALOG.024
                               Contents of Pascal Z Users Group volume 24 SCCM46 V.13L
                          2k
Z24
          ZUGYOL
                 .024
                          4K
```

Comments on programs in this volume

```
Z24.01
               BIOMO
                        .PAS
                               9 K
                                    Monthly bio-graf(tm) program - Epson MX-80 printer
     Z24.02
                              26 K
                        .PAS
               CHECKS
                                    Checkbook program
     Z24.03
                        . REL
                               1 K
                                    A subsidary Function for READCMD
               CTOI
                              14K
     Z24.04
                                    SD Sales BIOS w/VersFloppy I cntrllr (1771 & 1791)
               DBIOS
                        .Z80
     Z24.05
                               1 K
               DEL
                        .COM
                                    Delete files easily and safely - Try *.*
     Z24.06
               EXAMPL
                        .DOC
                               6 K
                                    Checkbook program
     Z24.07
               EXAMPL
                        .CHK
                               1 K
                                    Checkbook program
               EXAMPL
                               2K
   Z24.08
                        .NAM
                                    Checkbook program
     Z24.09
                        .PAS
                               3 K
               EPSON
                                    Info on the Epson MX-80
                        .COM
                               8K
     Z24.10
                                    Info on the Epson MX-80
               EPSON
     Z24.11
               GETNUMS
                        .P
                               4K
                                    Changes arguments starting w/# to an integer array
                               1 K
                                    Changes arguments starting w/# to an integer array
     Z24.12
                       .REL
               GETNUMS
     Z24.13
               LS
                        . C
                               8 K
                                    A rather nice program to list your directory
                                    A rather nice program to list your directory
                               2 K
     Z24.14
               LS
                        . DOC
     Z24.15
               LS
                        .COM
                               8K
                                    A rather nice program to list your directory
                              18K
     Z24.16
               PROM
                        .FIL
                                    PROM burner example
     Z24.17
                        .TXT
                               2K
                                    How about something even simpler. Just read it
               QUIZ
     Z24.18
               QUIZANS
                        .TXT
                               3 K
                                    Answer the questions - 2 missing in Quizans
     Z24.19
                        .P
                               8 K
               READCMD
                                    This handles arguments in a command tail
                               5K
                                    This handles arguments in a command tail
     Z24.20
               READCMD
                       .DOC
     Z24.21
               READCMD
                       .REL
                               3 K
                                    This handles arguments in a command tail
     Z24.22
               ROTATE
                        .BAS
                               3 K
                                    game with sixteen factorial variations
     Z24.23
               ROTATE
                        .COM
                              13K
                                    game with sixteen factorial variations
     Z24.24
               STUDENT
                       .PAS
                              20 K
                                    Pascal tutorial program
     Z24.25
                              19K
                                    Pascal tutorial program
               STUDENT
                       .COM
     Z24.26
                               4K
                                    A demo for READCMD
               TESTCMD
                        .PAS
                              14K
     Z24.27
               TESTCMD .COM
                                    A demo for READCMD
     Z24.28
               WRITNUM .PAS
                               3 K
                                    John improved a program from Disk #16 and it now
                       .COM
     Z24.29
               WRITNUM
                               9 K
                                    Handles up to $9,999.99 converts data to strings
     Z24.30
               ZDUMP
                        .PAS
                               6 K
                                    Dump program with lots of options
     Z24.31
               ZDUMP
                        .COM
                               9 K
                                    Dump program with lots of options
                                                                                  SEE SIGMUS
     Z25 67<sup>6 17)</sup> -CATALOG.025
                               2 K
                                    Contents of Pascal Z Users Group volume 25
     Z25
               ZUGVOL
                               3 K
                        .025
                                    Comments on programs in this volume
     Z25.01
               BASICOPS.PAS
                              23 K
                                    Extended precision floating point package
     Z25.02
                        .PAS
                               4K
                                    LINEAR utility source file
               BUILDF
     Z25.03
               BYTEOPS .REL
                               1 K
                                    Extended precision floating point package
     Z25.04
               BYTEOPS .SRC
                               8 K
                                    Extended precision floating point package
     Z25.05
               EDITFEED.COM
                              19K
                                    Puts cattle feed data on a disk file
     Z25.06
               EDITFEED.PAS
                               5K
                                    Puts cattle feed data on a disk - source file
                                    General purpose data editor for LINEAR program
     Z25.07
               EDITFILE.COM
                              16K
     Z25.08
               EDITFILE.PAS
                               9 K
                                    Sources for EDITFILE and EDITFEED
     Z25.09
               FEED
                        . DAT
                               5K
                                    Sample cattle feed data file
     Z25.10
               FEEDLOT .DOC
                              11 K
                                    DOC for cattle feed rations system
     Z25.11
               FLPTCONS.PAS
                               1 K
                                    Extended precision floating point package
     Z25.12
               FLPT DEMO.COM
                              28K
                                    Extended precision floating point package
     Z25.13
               FLPT DEMO . PAS
                               3 K
                                    Extended precision floating point package
     Z25.14
               FLPTEXT .PAS
                               2K
                                    Extended precision floating point package
     Z25.15
               FLPTPACK.DOC
                               7 K
                                    Extended precision floating point package
     Z25.16
               FLPTTYPE.PAS
                               1 K
                                    Extended precision floating point package
     Z25.17
               FLPTVAR .PAS
                               1 K
                                    Extended precision floating point package
     Z25.18
               INITIAL .PAS
                               2 K
                                    Initialize LINEAR program
     Z25.19
               LINEAR
                        .COM
                              24K
                                    Computes a least cost balanced ration for cattle
     Z25.20
               LINEAR
                        .PAS
                               8 K
                                    computes a least cost balanced ration for cattle
     Z25.21
               LINTEST
                       . DAT
                               2 K
                                    LINEAR test file
     Z25.22
                                    excellent METRIC conversion program
               METRICS
                       .COM
                              24K
     Z25.23
               METRICS .PAS
                              15K
                                    excellent METRIC conversion program
     Z25.24
                       .PAS
                                    LINEAR utility source file
               MODIFYF
                               4K
Z25.25
               PRINT
                        .PAS
                               2 K
                                    Print cattle feed ration data
                                    Contents of Pascal ZUG volume 26 SEE SEGMMG 0.134
     Z26 Sy6 SY-CATALOG.026
     Z26
               ZUGVOL
                        .026
                               3 K
                                    Pascal Z comments on files
     Z26.01
               ANIMALS .COM
                              26 K
                                    Simple game in Pascal Z
     Z26.02
               ANIMALS .. PAS
                              41 K
                                    Simple game in Pascal Z
```

Converts binary character to 2 ASCII hex digits

Check nrog . a in assemble

Z26.03

Z26.04

BINTOHEX.PAS

CHECKS .COM

2 K

Z26.05 .DOC CHECKS 20 K Check program in assembly Z26.06 53 K CHECKS .Z80 Check program in assembly Z26.07 9 K CLEAN .PAS Filter characters that upset printer Z26.08 CLEANPRT.PAS 5K Filter characters that upset printer Z26.09 CONVERT . DOC 2 K DOC for some file on this volume .PAS 2 K Ensures filename prefix char refers to legal drive Z26.10 DRVCHK 1 K Z26.11 EXAMPL .CHK Check demo to practice on Z26.12 EXAMPL .DOC 6 K Check demo to practice on 2 K Check demo to practice on Z26.13 EXAMPL . NAM Looked interesting so I threw it in Z26.14 GETFILES.PAS 2 K 1 K Converts integers to STRING Z26.15 GLOBALS .INT Z26.16 GLOBALS .RN\$ 2 K Converts numbers between STRING and REAL 3 K Converts hex to binary Z26.17 HEXTOBIN.PAS 4K Some macro's Greg has collected Z26.18 MACRO .SRC Converts integers to STRING PASZCODE.INT 4K Z26.19 PASZCODE.RN\$ 10K Converts numbers between STRING and REAL Z26.20 1 k Fills arrays X and Y using H^uston HIPAD Digitizer Z26.21 PROFILE .REL Z26.22 PROFILE .SRC 8 K Fills arrays X and Y using Houston HIPAD Digitizer This program uses PROFILE 1 K Z26.23 TP .PAS Z26.24 TSTAN2 .COM 14K Regression coefficient converted to slope angle 1 K Z26.25 TSTAN2 .PAS Regression coefficient converted to slope angle Z26.26 4K Seven (7) trig functions TRIGLIB .PAS

```
-CATALOG.148
                          contents of SIG/M Volume 148
                                       November 4, 1983
                          released
         ABSTRACT.148
                          information regarding volume
          SIG/M
                  .LIB
                          Donation form
          CRC
                  .COM
                          checksum program
index
                         size
                                        description
         name
                                crc
148.01
                               45 29
        BIOSIN
                 .PAS
                          9K
                                       Calendar program
148.02
        ERASE
                 . COM
                          8K
                               8B 97
                                       'User friendly' erase
148.03
                          6K
                               D3 A2
        ERASE
                 . PAS
148.04
                               62 14
                          lK
                                       Updated Lisp in Pascal
        INITLISP.
                          lK
                               F9 1E
148.05
        INITLISP.STB
                               C6 3B
148.06
                 .COM
        LISP
                         27K
148.07
                         14K
                               65 23
        LISP
                 .DOC
                 .PAS
                         38K
                               32 Al
148.08
        LISP
                               F3 46
                                       Illustration of public-key
148.09
        PRIME
                 .COM
                         20K
148.10
        PRIME
                 . DOC
                          4 K
                               02 6B
                                       cryptography
148.11
        PRIME
                 . PAS
                          3K
                               1C 3D
148.12
        PRIME
                 .TXT
                          3K
                               08 7A
                               55 CE
148.13
        PRIME
                 .PAS
                          3 K
                               AD 1E
                                       Random numbers library file
148.14
        RNDKNUTH.LIB
                          7K
148.15
        SIGNS
                 . DOC
                          4K
                               E5 63
                                       Formatting program for both
148.16
        SIGNS
                 . PAS
                          6K
                               7F 7F
                                       80 and 132 col printers
148.17
        SIGNS
                 .TXT
                          4K
                               55 13
                               50 6C
148.18
        SIGNS11 .COM
                         10K
148.19
                 .COM
        SIGNS6
                         10K
                               59 CA
148.20
                               45 1C
        FONT
                 .DAT
                          lK
                               01 80
148.21
        STUDENT2.COM
                         19K
                                       Updated Student program
148.22
        STUDENT2.PAS
                         23K
                               1C 37
148.23
        TUTOR
                 .PRN
                          9K
                               DF 95
SIG-M Library -CATALOG Volume Number-148, 23 Files cataloged.
```

Pascal Z Users Group Volume 027

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SIG/M

Volume 148

```
PUBLIC DOMAIN DISK
                                               vol. 1
-PUBLIC 001
                   0K
2SBIOS24ASM
                  26 K
2SBOOT24ASM
                   4K
CHAT15
       ASM
                   6K
CP/M-DECDOC
                   5K
                   4K
CPMTODECCOM
CPYFIL15ASM
                  10K
CV
         ASM
                   8K
CV
        DOC
                   1 K
D - 24
         ASM
                  17K
DDBIOS
        ASM
                  22K
DECTOCPMCOM
                   4K
                   5K
DIRF
         ASM
DU/MAP2 DOC
                   2K
FAST
        ASM
                  20K
                   2K
FAST
         COM
FILE-XT2ASM
                   8K
FILE-XT2COM
                   lK
ICOPYl
                   7 K
       ASM
LISTDEC COM
                   3K
MEMDIAG ASM
                 34K
MEMDIAG DOC
                 12K
More..
MHTIME
        ASM
                  13K
NEWQCAT ASM
                   5K
RELDUMP ASM
                   8K
TAG
        ASM
                   5K
                   7 K
WORM8/8 ASM
27 file(s).
31 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 2k
D>
                       PUBLIC DOMAIN DISK
-PUBLIC 002
                   0 K
22CPMCRCDOC
                   lK
                  24K
APBYE
        ASM
```

```
APMODEM 2ASM
                 40K
APXMODEMASM
                 25K
BDOS-PATASM
                   2K
CCPPATCHASM
                  1 K
CPM/TIP1DOC
                 18K
CPM/TIP2DOC
                  7 K
CRCK10/6ASM
                 11K
FINDBD37ASM
                 27K
FINDBD37COM
                  2K
MAKESUB2ASM
                  2K
MLIST42 ASM
                 12K
RSPEED
        ASM
                  3 K
S100XREFDOC
                  3 K
SURVEY3 ASM
                 13K
TFX12/18ASM
                 21K
USER
        DOC
                  lK
USER-8/8ASM
                   2K
XMODEM39ASM
                 24K
21 file(s).
35 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 2k

D> PUBLIC DOMAIN DISK vol. 3:

```
2ABIOS24ASM
                 35K
2DBOOT24ASM
                  7 K
                 35K
ABIOS24 ASM
COPY
        ASM
                 12K
DBOOT24 ASM
                  6K
DDUMP
                  3 K
        COM
DFORMAT ASM
                  9 K
                  2K
DFORMAT COM
DFRAND
        ASM
                 10K
                 11K
DTEST
        ASM
DTEST
        COM
                  2K
                 12K
FORMAT
        ASM
FORMAT91ASM
                  8K
                 62K
FORTH110ASM
FORTH110DOC
                  2K
                 16K
MACRO
        LIB
SKEW
                  1K
        LIB
WRTSYS ASM
                  5K
19 file(s).
38 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 3k

D>		PUBLIC DOMAIN DISK vol. 4
-PUBLIC 004	0K	
BANZAI ASM	9 K	
CPYFST37ASM	34K	
CPYFST37DOC	30K	
DIAL ASM	9 K	
DU-V77 ASM	42K	
DU-V77 DOC	6 K	
FLS COM	9 K	
MODEM527ASM	40K	
SQ COM	13K	
SQUEEZERDQC	16K	
SQUPDATE781	3 K	
STATUS ASM	8K	
STATUS COM	2K	
TYPESQ COM	8 K	
USQ15 COM	10K	
<pre>16 file(s).</pre>		
41 directory	entries	remaining.
D>STAT O:		

Bytes Remaining On O: 2k

D>		PUBLIC	DOMAIN	DISK	vol. 5
-PUBLIC 005	0K				
BIOSES DOC	2K				
BYE67 DOC	12K				
BYE71 ASM	52K				
BYE71 COM	2K				
BYE72BUGDOC	lK				
FILFND11AQM	11K				
NBIOS56 AQM	32K				
NBIOSC55AQM	26 K				
NSCOPY AQM	23 K				
NSGEN AQM	8K				
SDNBIOS AQM	13K				
SDNSGEN AQM	8 K				
SDNUSER AQM	5 K				
SNDBOOT AQM	2K				
SUPERSUBAOM	13K				
SUPERSUBDQC	3 K				
17 file(e)	وفاليك والمعطال والأسار أراسا الأسارات	بالعافية المادي متعمد	marketic business	t wine all the second	en e

41 directory entries remaining.
D>STAT O:

Bytes Remaining On O: 28k

```
PUBLIC DOMAIN DISK vol. 6
D>
-PUBLIC 006
                   0K
C
                   0K
CLEANUP COM
                   lK
                   6K
CRCK3
         MOA
                  11K
DIF
         CQ
DIF
         DOC
                   1K
DIF
         RNO
                   4K
DIRS9/8 AOM
                   6K
FIND
         MQA
                   6 K
                  16K
MODEM7
         DOC
MODEM7
         LIB
                  14K
                   3 K
MODEM7
         SET
                  47K
MODEM76 AQM
PIPPATCHAOM
                   4K
                   7 K
SSED
         CQ
SSED2
         COM
                  11K
                   1K
USER
         DOC
USER-8/8AQM
                   2K
                   2K
XMODEM 42DOC
XMODEM 46DOC
                   2K
XMODEM 49 AOM
                  32K
21 file(s).
40 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 65k

```
D>
                        PUBLIC DOMAIN DISK vol. 7
-PUBLIC 007
                   0 K
BDLOC
        ASM
                   2K
CCPZ
        MOD
                   2K
ZCPR
        AQM
                  34K
ZCPR
        ASM
                  51K
ZCPR
        CRC
                   lK
ZCPR
        DOC
                  45K
        DQC
ZCPR
                  26 K
ZCPR
        HLP
                  15K
ZCPR
        HQP
                  10K
ZCPR
        MQG
                   4K
ZCPR
        MSG
                   6K
ZCPR-11 BUG
                   lK
ZCPR-BB DIF
                   9K
ZCPR-BB DQF
                   7 K
ZCPR-BB NOT
                   5K
ZCPR-BB NQT
                   4K
ZCPRBLOCAQM
                   2K
18 file(s).
38 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 17k

```
D>
                                 PICTURE vol. 1
D>
                        SA - BRIDGE PICTURE disk 1 of 2
BRIDGE1 PQC
                 37K
BRIDGE2 PQC
                 35K
BRIDGE3 PQC
                 33K
BRIDGE4 PQC
                 38K
PICTURE 2DOC
                  2K
115015
                 אָ, ד
        COM
```

```
50 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 86k
                              PERCURE VOL. 2
A)
PIPPURD?
D>
D>
                               PICTURE vol. 1 (CONT.)
                       PSA - BRIDGE disk 2 of 2
D>
BRIDGE5 PQC
                 36K
BRIDGE6 PQC
                 31K
BRIDGE7 PQC
                 32K
BRIDGE8 PQC
                 33K
                  2K
PICTURE2DOC
                 10K
USQ15
        COM
6 file(s).
52 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 97k
                               PICTURE -vol 2
                      NR SPOOCK
                               PICTURE VOL
PECTURE?
D>
D>
                               PICTURE
                                        vol. 2
D>
                       MR. SPOCK disk l of l
PICTURE 2DOC
                  2K
SPOCKI
       PQC
                 38K
SPOCK 2
       PQC
                 30K
SPOCK3
        PQC
                 33K
SPOCK 4
       PQC
                 18K
USQ15
        COM
                10K
6 file(s).
52 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 110k
D>
52 directory entries remaining.
D>
D>
                       68000 CROSS ASSEMBLER (promotional sample)
D>
                                   Runs on CP/M - 80
-README
                  3 K
-README
                  3 K
A68K
        COM
                 41K
DATE
        COM
                  8K
DATE
        DOC
                  1K
```

6 file(s).

```
T5
         HEX
                    lK
T5
         PRN
                    3 K
9 file(s).
53 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 171k
D>
                         CP/M BACK-UP DISK
                  11K
ACTSREC DBF
                    3 K
ASM
         COM
                    8K
CLOCK
         COM
                    lK
COPYALL COM
                    2K
COPYFASTCOM
                    2K
CPY
                    3 K
         COM
D
         COM
                    2K
DDT
         COM
                    5K
         COM
DUMP
                    1K
DUMPX
         COM
                    3 K
         COM
                                          SYS
ED
                    7 K
         COM
FORMAT
                    lK
FY8283
                    3 K
         DBF
         COM
                    9K
JCAT
LABEL
         COM
                  10K
LOAD
         COM
                    2K
LST
                    lK
         COM
                    lK
MENU
         COM
MON
                    lK
MOVCPM
         COM
                  11K
OUT
         COM
                    7 K
More..
PIP
         COM
                    8K
PR-A1200COM
                    lK
PR-B1200COM
                    1K
PRNCRT
                    1K
         COM
RLOCBIOSCOM
                    3 K
RMAC
         COM
                  14K
         COM
SETCLK
                    lK
STAT
         COM
                    6 K
SUBMIT
         COM
                    2K
         COM
SYSGEN
                    1 K
V
         COM
                    2K
XDIR
         COM
                    2K
XSUB
         COM
                    1K
35 file(s).
29 directory entries remaining.
D>STAT O:
Bytes Remaining On O: 104k
D>
                           JRT PASCAL
                                        version 3.0
ARCTAN
         PAS
                    2K
CONVERTMIN2
                    4K
CONVERTMINT
                    4K
CONVERTMPAS
                    6K
cos
         PAS
                    2K
CRTMAP
         PAS
                    4K
CUSTOMIZINT
                    2K
DEBUG
         INT
                    1K
ERASE
         INT
                    1K
EXEC
         COM
                  24K
```

lK

ASM

T5

EXP

PAS

2K

```
INDEX1
                   7 K
         INT
INDEX 2
         INT
                   2K
JGRAF
         INT
                   5K
JGRAF
         PAS
                   8K
JRTASM
         INT
                  15K
JRTPAS3 COM
                  22K
JSTAT
         PAS
                   3 K
                   2K
LETTERS INT
LINKER
         INT
                   4K
LN
                   2K
         PAS
More..
PASCAL
                  13K
        LIB
PASCALO INT
                  24K
PASCALl INT
                   7 K
PASCAL2 INT
                   5K
PASCAL3 INT
                  10K
PASCAL4 INT
                   1 K
                   6K
PICTURE INT
READTHIS
                   2K
RENAME
                   1K
         INT
RESETBITASM
                   lK
SEARCH
         INT
                   1K
SETBIT
         ASM
                   1K
SIN
         PAS
                   1 K
         PAS
                   1K
SORT
TESTBIT ASM
                   lK
VERIFY
                   1K
        INT
38 file(s).
23 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 33k

```
PUBLIC DOMAINE DISK vol. X + 1
ASSIGN
         DRI
                   2K
BLOCKR
         DRI
                   lK
BLOCKR2 DRI
                   1K
BLOCKW
                   lK
         DRI
CLOSE
         DRI
                   2K
CREATE
                   lK
         DRI
EOF
                   lK
         DRI
EOLN
         DRI
                   lK
GET
                   1K
         DRI
                   2K
GNB
         DRI
                   lK
IOERR
         DRI
IORESU
         DRI
                   1K
NAMESTUFDRI
                   lK
OPENSTUFDRI
                   lK
PFLT2
                   4 K
         DRI
PUT
                   lK
         DRI
                   3K
RDREAL
         DRI
                   2K
RDWRHEX DRI
                   3K
RESET
         DRI
                   2K
REWRITE DRI
RIN
         DRI
                   4 K
RNB
         DRI
                   3K
More..
RNC
         DRI
                   1K
S2I
         DRI
                   lK
SGTSPT
         DRI
                   lK
UTILMOD DRI
                   2K
                   lK
WNB
         DRI
WNC
         DRI
                   lK
WRITENB DRI
                   2K
WRTREAL DRI
                   7K
30 file(s).
34 directory entries remaining.
D>STAT O:
```

Bytes Remaining On O: 186k

```
ACOMPS
         MAC
                   2K
BITSTUF MAC
                   2K
CHN
         MAC
                   2K
CHW
                   2K
         MAC
CONCAT
         MAC
                   2K
CRL
         MAC
                   1K
CWT
                   1K
         MAC
DIVMOD
         MAC
                   5K
                  24K
DYNOP
         MAC
FIN
         MAC
                   lK
         MAC
                   lK
FOR
GETCH
         MAC
                   lK
                   lK
HLT
         MAC
IBCOMPS MAC
                   2K
                   4 K
INI
         MAC
INP
         MAC
                   lK
IOMOD
         MAC
                   2K
IOS
         MAC
                   1K
                   2K
MOVES
         MAC
MULT
         MAC
                   lK
OUT
         MAC
                   lK
                  10K
OVLMGR
         MAC
More..
PSTPLD
         MAC
                   1K
RCH
         MAC
                   lK
RNDIO
         MAC
                   lK
RST
         MAC
                   4 K
                   lK
RTPDAT
         MAC
SETCOMPSMAC
                   3K
                   2K
SETMOVESMAC
SETOPS
         MAC
                   6K
SHIFTS
         MAC
                   lK
STR
                   2K
         MAC
STRCOMP MAC
                   2K
SWAPBYTEMAC
                   lK
WAIT8085MAC
                   2K
WCH
         MAC
                   2K
WINT
         MAC
                   2K
WRB
         MAC
                   lK
WRDCOMPSMAC
                   2K
WRS
         MAC
                   lK
XJP
         MAC
                   2K
41 file(s).
22 directory entries remaining.
```

Bytes Remaining On O: 135k

D>

D>STAT O:

```
ASSIGN
                    2K
         SRC
BLOCKR
         SRC
                    lK
BLOCKR2 SRC
                   lK
BLOCKW
         SRC
                   1K
CHAIN
         SRC
                    lK
CLOSE
         SRC
                    2K
CMDMOD
                   lK
         SRC
COPY
                   1K
         SRC
CREATE
                   lK
         SRC
DELETE
         SRC
                   1K
EOF
         SRC
                   lK
EOLN
         SRC
                   lK
GET
         SRC
                   lK
GNB
         SRC
                   2K
                   2K
         SRC
GNBCHK
                   1K
INSERT
         SRC
IOERR
                   lK
         SRC
                   lK
IORESU
         SRC
NAMESTUFSRC
                   1K
                   lK
OPENSTUFSRC
PAGE
         SRC
                   1K
PFLT2
         SRC
                   4 K
More..
POS
         SRC
                   lK
                   1K
PURGE
         SRC
PUT
         SRC
                   lK
                   3K
         SRC
RDREAL
RDWRHEX SRC
                   2K
                   3K
RESET
         SRC
REWRITE SRC
                   2K
                   4 K
RIN
         SRC
RNB
         SRC
                   3K
RNC
         SRC
                   1K
S2I
         SRC
                   1K
SGTSPT
         SRC
                   lK
                   lK
SYSERR
         SRC
                   2K
UTILMOD SRC
WNB
         SRC
                   lK
                   lK
WNC
         SRC
WRITENB SRC
                   2K
                   7K
WRTREAL SRC
40 file(s).
```

24 directory entries remaining. D>STAT O:

Bytes Remaining On O: 175k

DRI & CP/M APP NOTES

			DIT	α	•
CPM3APP :	LBR	55K			
CPM3PAT :	LBR	93K			
CPMUTIL :	LBR	59K			
DRI-XA1	FLS	12K			
4 file(s).				
49 direc		entries	remain:	ind	٦.
D) Gm3 m 0	1				_

D>STAT O:

Bytes Remaining On O: 22k

NAME	DISK		NAME	DISK
-CATALOG.001	CATALOG	.001	-CATALOG.002	CATALOG .002
-CATALOG.003	CATALOG	.003	-CATALOG.004	CATALOG .004
-CATALOG.005	CATALOG	.005	-CATALOG.006	CATALOG .006
-CATALOG.007	CATALOG	.007	-CATALOG.008	CATALOG .008
-CATALOG.009	CATALOG	.009	-CATALOG.010	CATALOG .010
-CATALOG.011	CATALOG	.011	-CATALOG.012	CATALOG .012
-CATALOG.013	CATALOG	.013	-CATALOG.014	CATALOG .014
-CATALOG.015	CATALOG	.015	-CATALOG.016	CATALOG .016
-CATALOG.017	CATALOG	.017	-CATALOG.018	CATALOG .018
-CATALOG.019	CATALOG	.019	-CATALOG.020	CATALOG .020
-CATALOG.021	CATALOG	.021	-CATALOG.022	CATALOG .022
-CATALOG.023	CATALOG	.023	-CATALOG.024	CATALOG .024
-CATALOG.025	CATALOG	.025	-CATALOG.026	CATALOG .026
-CATALOG.027	CATALOG	.027	-CATALOG.028	CATALOG .028
-CATALOG.029	CATALOG	.029	-CATALOG.030	CATALOG .030
-CATALOG.031	CATALOG	.031	-CATALOG.032	CATALOG .032
-CATALOG.033	CATALOG	.033	-CATALOG.034	CATALOG .034
-CATALOG.035	CATALOG	.035	-CATALOG.036	CATALOG .036
-CATALOG.037	CATALOG	.037	-CATALOG.038	CATALOG .038
-CATALOG.039	CATALOG	.039	-CATALOG.040	CATALOG .040
-CATALOG.041	CATALOG	.041	-CATALOG.042	CATALOG .042
-CATALOG.043	CATALOG	.043	-CATALOG.044	CATALOG .044
-CATALOG.045	CATALOG	.045	-CATALOG.046	CATALOG .046
-CATALOG.047	CATALOG	.047	-SIGMLOG.001	SIGMLOG .001
-SIGMLOG.002	SIGMLOG	.002	-SIGMLOG.003	SIGMLOG .003
-SIGMLOG.004	SIGMLOG	.004	-SIGMLOG.005	SIGMLOG .005
-SIGMLOG.006	SIGMLOG	.006	-SIGMLOG.007	SIGMLOG .007
-SIGMLOG.008	SIGMLOG	.008	-SIGMLOG.009	SIGMLOG .009
-SIGMLOG.010	SIGMLOG	.010	-SIGMLOG.011	SIGMLOG .011
/ .DOC	CATALOG	.040	15/PUZ .ASC	CATALOG .013
1500 .ASC	CATALOG	.013	21 .ASC	CATALOG .005
23MATCH .BAS	CATALOG	.013	2PRTFJSB.MUS	CATALOG .039
2PRTFJSB.NOT 3740UTIL.ASM	CATALOG	.039	3712DIAG.ASM	SIGMLOG .005
3812DIAG.ASM	SIGMLOG	.004	3740UTIL.DOC	SIGMLOG .004
3X12DIAG.ASM	SIGMLOG	.005	3DTICTAC.ASM	CATALOG .017
88-MODEM.DOC	SIGMLOG CATALOG		88-MODEM.ASM	CATALOG .025
A/P000 .BAS			A/P-INFO.BAS	CATALOG .043
A/P000 .BAS	CATALOG CATALOG		A/P010 .BAS A/P02B .BAS	CATALOG .043
A/P030 .BAS	CATALOG			CATALOG .043
A/P050 .BAS	CATALOG		P. C.	CATALOG .043
A/P070 .BAS	CATALOG		A/P060 .BAS A/P080 .BAS	CATALOG .043 CATALOG .043
A/P090 .BAS	CATALOG			
A/P120 .BAS	CATALOG		A/P110 .BAS A/R-INFO.BAS	CATALOG .043
A/R-INV .BAS	CATALOG			CATALOG .043 CATALOG .043
A/R020 .BAS	CATALOG		A/R010 .BAS A/R03A .BAS	
A/RO3B .BAS	CATALOG		A/R040 .BAS	CATALOG .043 CATALOG .043
A/R050 .BAS	CATALOG		A/R060 .BAS	CATALOG .043
A/R070 .BAS	CATALOG		A/R080 .BAS	CATALOG .043
A/RTAX .BAS	CATALOG		AA .COM	CATALOG .043
ABSTRACT.001	SIGMLOG		ABSTRACT.002	SIGMLOG .002
ABSTRACT.003	SIGMLOG		ABSTRACT.002	SIGMLOG .002
ABSTRACT.011	SIGMLOG		ABSTRACT.034	CATALOG .034
	Promise	• • • •	ADDITACI.U34	PCO. DOURIAS

NAME	DISK	NAME	DISK
ABSTRACT.035	CATALOG .035	ABSTRACT.036	CATALOG .036
ABSTRACT.037	CATALOG .037	ABSTRACT.038	CATALOG .038
ABSTRACT.039	CATALOG .039	ABSTRACT.040	CATALOG .040
ABSTRACT.041	CATALOG .041	ABSTRACT.042	CATALOG .042
ABSTRACT.043	CATALOG .043	ABSTRACT.044	CATALOG .044
ABSTRACT.045	CATALOG .045	ABSTRACT.046	CATALOG .046
ABSTRACT.047	CATALOG .047	ACCTFILE.BAS	CATALOG .044
ACE .BAS	CATALOG .003	ACT .DOC	CATALOG .004
ACT31 .COM	CATALOG .004	ACT31UC .COM	CATALOG .004
ACYDUCY .ASC	CATALOG .021	AD .COM	SIGMLOG .001
ADDPOD .BAS	CATALOG .033 SIGMLOG .002	ADE .ASM ADM3 .MOD	CATALOG .019
ADINIT .COM	SIGMLOG .002 SIGMLOG .003	ADM3 .MOD ADV .COM	CATALOG .028 SIGMLOG .011
ADV .COM ADVENSUB.FOR	SIGMLOG .003 SIGMLOG .002	ADVENT .FOR	SIGMLOG .011 SIGMLOG .002
ADVENSUB.FOR ADVENTUR.DAT	SIGMLOG .002	ADVENTUR.MSG	SIGMLOG .002
ADVENIOR.DAI	SIGMLOG .002 SIGMLOG .003	ADVI .DAT	SIGMLOG .001
ADVI .PTR	SIGMLOG .003	ADVI .PTR	SIGMLOG .011
ADVINIT3.FOR	SIGMLOG .003	ADVMAIN .FOR	SIGMLOG .011
ADVINITION ADVINITION DAT	SIGMLOG .002	ADVT .DAT	SIGMLOG .002
ADVT .PTR	SIGMLOG .003	ADVT .PTR	SIGMLOG .011
AIR .MUS	CATALOG .039	ALGINTRO.TXT	CATALOG .028
ALGOLM .COM	CATALOG .033	ALGSTART.TXT	CATALOG .028
ALLEGRO .MUS	CATALOG .039	ALLOC .ASM	CATALOG .015
ALLOC .ASM	CATALOG .029	ALLOC .COM	CATALOG .040
ALLOC .DOC	CATALOG .040	ALS8CPM .ASM	SIGMLOG .010
AMAZE .	CATALOG .004	AMAZE .BAS	CATALOG .003
AMERICA .MUS	CATALOG .039	AMUSE .	CATALOG .004
ANIMAL .BAS	CATALOG .003	ANNTOT1 .BAS	CATALOG .044
ANNTOT1 .INT	CATALOG .044	ANTONYMS, ASC	CATALOG .027
APOLLO .ASC	CATALOG .021	AREA .BAS	CATALOG .037
AREA .INT	CATALOG .037	ARIA .MUS	CATALOG .039
ARRAY .ALG	CATALOG .028	ARTICLE .	CATALOG .014
ASMX .COM	CATALOG .016	ASSEMBL .DOC	CATALOG .023
ASSIGN .ASM	CATALOG .001	ASTRO .FNT	CATALOG .034
ATAB .DAT	SIGMLOG .001	AUTOX .ASM	SIGMLOG .009
AWAVE .BAS	CATALOG .039	AWAVE .INT	CATALOG .039
BACCRRT .ASC	CATALOG .026	BAGELS .BAS	CATALOG .003
BAGELS .BAS	CATALOG .013	BAGELS2 .BAS	CATALOG .003
BANNER .ASC	CATALOG .021	BANNER .ASM	CATALOG .008
BAS2-0 .COM	CATALOG .005	BAS2-1 .COM	CATALOG .005
BASCOM .LIT	CATALOG .030	BASEBALL.ASC	CATALOG .026
BASIC .COM	CATALOG .030	BASIC .PLM	CATALOG .030
BASIC/5 .ASM	CATALOG .011	BASIC/5 .COM	CATALOG .011
BASIC/5 .DOC	CATALOG .011	BASPAR .PLM	CATALOG .030
BASSYN .PLM	CATALOG .030	BCD-DRVR.ASM	CATALOG .014
BDOS-PAT.ASM	SIGMLOG .004	BEASTIE .ASM	CATALOG .015
BEE .FAS	CATALOG .035	BEE# .FEX	CATALOG .035
BIDI .ASM BIGTREK .BAS	CATALOG .042	BIGTREK .ASC	CATALOG .022 CATALOG .008
BINSEARC.BAS	CATALOG .022	BINLOAD1.ASM BINSERCH.BAS	CATALOG .008 CATALOG .044
BIO .ASC	CATALOG .043 CATALOG .021	BIO-FF .ASC	CATALOG .044 CATALOG .005
BIOCAL .ASC	CATALOG .021 CATALOG .026	BIOPRINT.BAS	CATALOG .003
BIORYME .ASC	CATALOG .026	BIORYTH .ASC	CATALOG .005
	CLIN. DOUBLING	DIOKIII MIOO	CHILITION . 000

	NAME		DISK		NAME		DISK	
	BIOSGO	T.TR	САТАТОС	- 008	BIRTHDAY	ASC	CATALOG	.026
	BITCASP		CATALOG CATALOG	033	BKSPACE		CATALOG	
	BLACKBOX		CATALOG	010	BLACKJAC		CATALOG	
			SIGNLOG	.010	BLACKJCK		CATALOG	
	BLACKJAC		SIGMLOG CATALOG CATALOG	020	BLKFRI	.BAS	CATALOG	
	BLK	.INP	CATALOG	. 020	BLKFRI2		CATALOG	
	BLKFRI2		CATALOG		BLKJK	.ASC	CATALOG	
	BLKFRI3		CATALOG		BLOAD	.ASC	CATALOG	
	BLKTEST		CATALOG	020			CATALOG	
	BLUFF		CATALOG	047	BMAP7/11	.BAS		
	BMAP7/11		CATALOG		BONUS		SIGMLOG	
	BOGGLE		SIGMLOG			.DOC	CATALOG	
	BOOGIE		CATALOG		BOOK	.DOC	CATALOG	
	BOOLINT		CATALOG			.ASM	CATALOG	
	BOOT	.ASM	SIGMLOG			.DOC	CATALOG	
	BOOTER		CATALOG			.DOC	SIGMLOG	
	BOUREE		CATALOG		BPNF	.ASM	CATALOG	
	BREEZ	.MUS	CATALOG		BREPORT		CATALOG	
	BSPAT16B				BUDGET	.ASC	CATALOG	
	BUDGETI		CATALOG		BUDGET1		CATALOG	
	BUDGET1		CATALOG		BUDGETCH		CATALOG	
	BUDGETCH				BUILD	.PLM	CATALOG	
	BULLSEYE		CATALOG		BVBOOT	.ASM		.038
	BVIOS	.ASM	CATALOG		BYTEMOV	.ASM	CATALOG	.008
	CAESAR		CATALOG		CAESAR	•BQ		.033
	CAESAR	.DQ	CATALOG		CAESAR	.MQ	CATALOG	.033
	CALENDAR		CATALOG		CALENDAR		CATALOG	.004
	CALIOPE		CATALOG		CANNONS	.BAS	CATALOG	.003
	CAPSERCH		CATALOG		CASDSK	.ASM	CATALOG	.001
	CASETEST		CATALOG		CASETWO		CATALOG	.028
	CASPGAME		CATALOG		CASPPLUS		CATALOG	.033
	CASUAL	.ASM	CATALOG		CAT	.ASM	CATALOG	.025
	CAT	. COM	CATALOG		CAT	.COM	CATALOG	
	CAT2	. COM	CATALOG		CATALOG	.DOC	CATALOG	
	CBAS	.SUB	CATALOG		CBIOS24	.ASM	CATALOG	.025
	CCOS1	.ASM	CATALOG	.006	CCPPATCH		SIGMLOG	.004
	CHAIN	.BAS	CATALOG	.026	CHAIN	.BAS	CATALOG	.037
	CHAIN	INT	CATALOG		CHANGE	.ASM	SIGMLOG	.004
	CHASE	.ASC	CATALOG		CHASE	.ASC	CATALOG	.026
×	CHASE	.ASM	CATALOG		CHASE	.ASM	CATALOG	.029
	CHASE	BAS	CATALOG		CHAT13	.ASM	SIGMLOG	.008
	CHECKERS		CATALOG		CHECKOU&		CATALOG	.035
	CHECKOUT		CATALOG		CHESS	.ASC	CATALOG	.021
	CHESS	.ASC	CATALOG		CHESS	.COM	CATALOG	.041
	CHESS	.DOC	CATALOG		CHESS	.FOR	CATALOG	.041
	CHIEF	.BAS	CATALOG		CHOMP	.BAS	CATALOG	.003
	CHOPS	.MUS	CATALOG			.MUS	CATALOG	.039
	CIVILW	.BAS	CATALOG		CIVILWAR		CATALOG	.026
	CK-FIX	. COM	CATALOG			.DOC	CATALOG	.040
	CKSUM CLEAR	.ASM	CATALOG		CLEANUP		CATALOG	.040
	CLEAR	.ASM	CATALOG		CLIMATES		CATALOG	.026
	CODE	.ASM .BAS	CATALOG		CLOUD-9		CATALOG	.026
	COMBINE	.BAS	CATALOG			. ASM	CATALOG	
	COMPTNE	· DAD	CATALOG	.003	COMBINE	. COM	CATALOG	• 030

NAME		DISK		NAME		DISK	
COMERR .T	TXT	CATALOG	.028		.DAT	SIGMLOG	.001
COMMON1 .7	TXT	CATALOG	.037	COMPARE	.ASM	CATALOG	.006
COMPARE .A	ASM	CATALOG	.040	COMPARE	. COM	CATALOG	.040
	SUB	CATALOG	.037	CONCOD	.LIB	SIGMLOG	.006
		CATALOG	.013	COPCON	.ASC	CATALOG	.009
		CATALOG		COPY	.ASM	CATALOG	.001
		CATALOG		COPY	.ASM	CATALOG	
		CATALOG		COPY	. COM	CATALOG	
		CATALOG		COPYDSK	.MAC	CATALOG	.016
COPYFAST.		CATALOG		COPYFAST	.COM	CATALOG	.047
		CATALOG		CORE	.BAS	CATALOG	.003
CORETEST.E		CATALOG		CP/M-NET		SIGMLOG	.005
		CATALOG		CPM-FDOS	.ASM	CATALOG	.046
CPM-PEN .A		CATALOG		CPM-PEN	.COM	CATALOG	.036
CPMLABEL.E		CATALOG		CPMLABEL	.DOC	CATALOG	.046
CPMSETL .C		CATALOG	.034	CPMUTIL	.ASM	CATALOG	.016
CPUDIAG .A		SIGMLOG	.005	CPUDIAG	.DOC	SIGMLOG	.005
CPUPARTS.E		CATALOG	.037	CPYFIL15	.ASM	SIGMLOG	.009
		CATALOG	.026	CRAPS	.BAS	CATALOG	.003
		CATALOG	.037	CRAPS	.DOC	CATALOG	.037
CRAPS .I	NT	CATALOG	.037	CRAZY-8	.ASC	CATALOG	.026
CRCK10/6.A	SM	SIGMLOG	.009	CRCK3	.ASM	CATALOG	.046
CRCK3 .A	SM	SIGMLOG	.004	CRCK3	. COM	CATALOG	.046
CREATE .A	SM	CATALOG	.035	CROROS	.ASM	CATALOG	.017
CRTFM .B	BAS	CATALOG	.043	CRTFM	.BAS	CATALOG	.044
CRTFM .I	NT	CATALOG	.044	CT82	.COM	CATALOG	.042
CT82 .Z	80	CATALOG	.042	CURSOR	.BAS	CATALOG	.043
CURSOR .E	BAS	CATALOG	.044	CUTTER	.ASM	CATALOG	.006
CV .A	SM	CATALOG	.040		. COM	CATALOG	.040
				CYBER	.ASM	CATALOG	.047
			.040	D	.DOC	CATALOG	.040
				DATABASE	.DOC	CATALOG	.028
				DBQUERY	.BAS	CATALOG	.028
DBSETUP .B					.ASM	CATALOG	.025
DCHBYE55.A				DCHBYE57		SIGMLOG	.008
DCHDIAG .A		CATALOG		DDTPATCH	.ASM	CATALOG	
		CATALOG			.INT	CATALOG	
		CATALOG		DEC2	.INT	CATALOG	
		CATALOG		DEC3	.INT	CATALOG	
		CATALOG		DEC4	.INT	CATALOG	
		CATALOG		DEC5	.INT	CATALOG	
		CATALOG		DEC6	.INT	CATALOG	
DECIMAL .E		CATALOG			.INT	CATALOG	
DECISION.A		CATALOG		DEFLECT		CATALOG	
		CATALOG			.ASM	CATALOG	
		CATALOG			.ASM	CATALOG	.038
		CATALOG				CATALOG	.038
					. COM	CATALOG	.040
				DIAL6/23		CATALOG	.047
DIAL6/23.D				DIAMONDS		CATALOG	
					.DOC	CATALOG	
DIRSIO/1.A		SIGMLOG			.SAM	CATALOG	
DIMBIO, I.E.	1011	SIGMLOG	. 004	DIRS1015	· non	SIGMLOG	.009

NAME		DISK		NAME		DISK	
DIRS9/8 .F	ASM	CATALOG			.ASM	CATALOG	.042
DIS .I	OOC			DISASM	.COM	CATALOG	.017
DISASSM1.A			.001	DISASSM2		CATALOG	.001
DISK .I	PRN		.037		.ASM	CATALOG	.008
DISKIN .I	LIB		.008	DISKTES1	.ASM	CATALOG	.008
DISKTEST.			.001		.ASM	CATALOG	.017
DISPLAY .			.009	DISPLAY	.DOC	SIGMLOG	.009
DISPLAYP.			.009	DISPONOF		CATALOG	.035
DISSAMBR.A			.027	DISTANCE		CATALOG	.037
DISTANCE.			.037		.FAS	CATALOG	.035
DISTEST&.			.035	DISTPLUS		CATALOG	.035
			.010	DIVIDEL	.LIB	CATALOG	.008
			.014	DLOAD	.ASM	CATALOG	.014
			.014	DMSPATCH		CATALOG	.038
		CATALOG			.COM	CATALOG	.035
70000000000000000000000000000000000000		CATALOG		DOWHILES		CATALOG	.029
DRAGRACE.		CATALOG		DSCUSPAT		CATALOG	.038
		SIGMLOG			.ASM	CATALOG	.001
					.ASM	CATALOG	.035
		CATALOG		DU-10/26	. COM	CATALOG	.040
					.ASM	SIGMLOG SIGMLOG	.004
					.DOC	CATALOG	.046
					. ASM	CATALOG	.024
					. COM	CATALOG	.024
					.ASM	SIGMLOG	.004
			.001		.ASM	CATALOG	.029
			.016		.DOC	CATALOG	.023
			.026		.ASC	CATALOG	.005
EDUCATOR.A			.016		.DOC	CATALOG	.006
			.040		.BAS	CATALOG	.033
			.021		.ASC	CATALOG	.021
			.039		.LIB	SIGMLOG	.004
			.003		.ASM	CATALOG	.001
			.035		.OBJ	CATALOG	.035
EXECPLUS. A		CATALOG		EXECSAFE		CATALOG	
EXP1980 .7		CATALOG		EXPENS80		CATALOG	.044
		CATALOG			.ASM	CATALOG	.034
EXTF .I		CATALOG		FANCY#	. FEX	CATALOG	.035
	COM	CATALOG			.ASM	CATALOG	.038
FAST .C	COM	CATALOG	.038	FASTNSTL	.DOC	CATALOG	.038
FBIOS24 .F	ASM	CATALOG	.025	FBOOT24	.ASM	CATALOG	.025
FCBMOV .F	ASM	CATALOG	.035	FCBNEW	.ASM	CATALOG	.035
FDL .	. 1	CATALOG	.004	FDOS-CPM	.ASM	CATALOG	.046
	ASM	CATALOG	.035	FELIX	.COM	CATALOG	.035
			.035	FELIX	.OBJ	CATALOG	.035
			.035		.BAS	CATALOG	.003
					.INP	CATALOG	.028
FILEINIT.E		CATALOG		FILEINIT		CATALOG	.044
FILEINIT.					.COM	CATALOG	.001
		CATALOG		FILPRINT		SIGMLOG	.004
		CATALOG			. COM	CATALOG	.036
FIND .I	ooc (CATALOG	.036	FIND3/18	.ASM	SIGMLOG	.009

NAME	DISK	NAME	DISK
FINDBD37.ASM	SIGMLOG .004	FINDBD38.ASM	SIGMLOG .009
FIT .BAS	CATALOG .003	FIX .SUB	CATALOG .039
FLIP-8/8.ASM	SIGMLOG .007	FLIP3 .ASM	CATALOG .047
FLOATPNT.DOC	CATALOG .023	FLTARITH.ASM	CATALOG .018
FLYTEST .AIN	CATALOG .028	FLYTEST .ALG	CATALOG .028
FMAN .PRN	CATALOG .038	FMAP .ASM	CATALOG .008
FMAP .COM	CATALOG .025	FMAP .COM	CATALOG .040
FMAP .DOC	CATALOG .040	FMAP6/12.ASM	SIGMLOG .004
FOCAL .ASM	CATALOG .016	FOOTBALL.ASC	CATALOG .027
FOOTBALL.BAS	CATALOG .020	FORMAT .ASC	CATALOG .005
FORMAT .ASM	CATALOG .025	FORMAT .BAS	CATALOG .003
FORMAT .COM	CATALOG .024	FORMAT .FMI	CATALOG .003
FORMATI .ASM	CATALOG .008	FORMULA .BAS	CATALOG .037
FORMULA .INT	CATALOG .037	FPCONV .ASM	CATALOG .018
FPCONV .SRC	CATALOG .029	FPDATA .SRC	CATALOG .029
FPINT .SRC	CATALOG .029	FPPKG .SRC	CATALOG .029
FRAC1 .BAS	CATALOG .037	FRAC1 .INT	CATALOG .037
FRAC2 .BAS	CATALOG .037	FRAC2 .INT	CATALOG .037
FRAC3 .BAS	CATALOG .037	FRAC3 .INT	CATALOG .037
FRAC4 .BAS	CATALOG .037	FRAC4 .INT	CATALOG .037
FRACTION.BAS	CATALOG .037	FRACTION.INT	CATALOG .037
FRAGMENT.DOC	CATALOG .025	FRIEND .DOC	CATALOG .034
FUNCTION.ASM	CATALOG .017	FURS .ASC	CATALOG .021
G .SAM	CATALOG .034	G/L .DOC	CATALOG .044
G/L-INFO.BAS	CATALOG .043	G/L-INFO.BAS	CATALOG .044
G/L000 .BAS	CATALOG .044	G/L000 .INT	CATALOG .044
G/L010 .BAS	CATALOG .044	G/L010 .INT	CATALOG .044
G/L020 .BAS	CATALOG .044	G/L020 .INT	CATALOG .044
G/L030 .BAS	CATALOG .044	G/L030 .INT	CATALOG .044
G/L040 .BAS	CATALOG .044	G/L040 .INT	CATALOG .044
G/L050 .BAS	CATALOG .044	G/L050 .INT	CATALOG .044
G/L070 .BAS	CATALOG .044	G/L070 .INT	CATALOG .044
G/L080 .BAS	CATALOG .044	G/L080 .INT	CATALOG .044
GALAXY .ASC	CATALOG .026	GALAXY2 .ASC	CATALOG .026
GAMMON .H19	SIGMLOG .010	GAMMONB .BAS	SIGMLOG .010
GENINFO .BAS	CATALOG .043	GENINFO .BAS	CATALOG .044
GETF .ASM	CATALOG .035	GETPUT .ASC	CATALOG .009
GETVEC .LIB	CATALOG .001	GETW .ASM	CATALOG .035
GL1 .ASC	CATALOG .009	GL2 .ASC	CATALOG .009
GL3 .ASC	CATALOG .009	GL4 .ASC	CATALOG .009
GL5 .ASC	CATALOG .009	GL6 .ASC	CATALOG .009
GL7 .ASC	CATALOG .009	GLMENU .ASC	CATALOG .009
GO .ASM	CATALOG .008	GOLDI .PLT	CATALOG .012
GOLF .ASC	CATALOG .027	GOLF .BAS	CATALOG .020
GOTOTEST.ALG	CATALOG .028	GRADE .BAS	CATALOG .037
GREEKRTS.ASC	CATALOG .027	GUNNER .BAS	CATALOG .020
HAIKU .	CATALOG .004	HAMPROGS.DOC	CATALOG .041
HANG .BAS	CATALOG .003	HANGMN-1.ASC	CATALOG .027
HANGMN-2.ASC	CATALOG .027	HANGMN-3.ASC	CATALOG .027
HANOI .ALG	CATALOG .028	HEADER .BAS	CATALOG .037
HELLO .BAS	CATALOG .003	HEXDUMP .ASM	CATALOG .040
HEXOUT .ASM	CATALOG .035	HIDESEEK.ASC	CATALOG .027
HIPILOT .PLT	CATALOG .012	HOOH .SAM	CATALOG .034

NAME		DISK		NAME		DISK	
HORSE	.ASC	CATALOG		HOW2BS	.DOC	CATALOG	.042
HUSTLE	.MUS	CATALOG	.039	HYS13	.ASM	CATALOG	.001
HYS15	.ASM	CATALOG	.001	ICOPY	.ASM	CATALOG	.001
IDIR	.ASM	CATALOG		IDUMP	.ASM	CATALOG	
IDUMP	. COM	CATALOG		IGADD	.MAC	CATALOG	
ILRAW	. COM	CATALOG		INFO	.SAM	CATALOG	.034
INFOl	.DOC	CATALOG		INFO2	.DOC	CATALOG	.034
INFO3	.DOC	CATALOG		INFO4	.DOC	CATALOG	
INFO5	.DOC	CATALOG		INIT	.ASM	CATALOG	.015
INIT	.TEL	CATALOG		INIT2	.ASM	CATALOG	
INNUM1	.LIB	CATALOG		INSUB	.FOR	SIGMLOG	
INTEGER		CATALOG		INTEGER		CATALOG	
INTRRUPT		CATALOG		INV	•	CATALOG	
INV	.IND	CATALOG		IOEXAMP	•	CATALOG	
IQUEEN	.ASC	CATALOG		IRISH	.MUS	CATALOG	
JOURNAL	.BAS	SIGMLOG		JRNL	.BAS	CATALOG	
JRNL	.INT	CATALOG		KENO	.BAS	CATALOG	
KERNEL	.ASM	CATALOG		KERNEL	.DOC	CATALOG	
KERNL	.ASM	CATALOG		KING	.ASC	CATALOG	
KINGDOM	.BAS	CATALOG		KSAP	.COM	CATALOG	
KTAB	.DAT	SIGMLOG		L81	.COM	CATALOG	
L82	.COM	CATALOG		L82	.COM	CATALOG	
L83	. COM	CATALOG		LABEL	.SAM	CATALOG	
LABELS	.BAS	CATALOG		LANDER	.ASC	CATALOG	
LANDER	.BAS	CATALOG		LANES	.BAS	CATALOG	
LANES	.BAS	SIGMLOG		LAWRENCE		CATALOG	
LEDGER1	.BAS	CATALOG		LEDGER1		CATALOG	
LEDGER1	INT	CATALOG		LEM	.BAS	CATALOG	
LETTER	.ASM	CATALOG		LETTER	.DOC	CATALOG	
LIFE8	.ASM	CATALOG		LIFE8	.COM	CATALOG	
LIFE8	.DOC	CATALOG		LINES	.COM	CATALOG	
LINES	.DOC	CATALOG		LINK	.ASM	CATALOG	
LINK73	.ASM	CATALOG		LINKASM	.COM	CATALOG	
LINKASM	.DOC	CATALOG	.036	LINUS	.PIC	CATALOG	
LIOS	. ASM	CATALOG		LIST	.COM	CATALOG	
LIST	.DOC	CATALOG			.ASM	CATALOG	
LISTGRPS		SIGMLOG		LLLBASIC		CATALOG	
LLLBASIC			.010	LLLBASIC		CATALOG	.002
LLLBASIC		CATALOG	.010	LLLBASIC		CATALOG	.002
LLLBASIC	.DOC	CATALOG	.010	LLLFP	.ASM	CATALOG	.002
LLLFP	.ASM	CATALOG	.010	LLLMON	.ASM	CATALOG	.002
LLLMON	.ASM	CATALOG	.010	LOAD	.DOC	CATALOG	.023
LOAD	.DOC	CATALOG	.025	LOADBACK		CATALOG	.035
LOADOB	.COM	CATALOG	.035	LOADPROG		CATALOG	.035
LOADPROG	. COM	CATALOG	.035	LOAN	BAS	CATALOG	.003
LOOP	.SAM	CATALOG	.034	LOVE	.BAS	CATALOG	.003
LTEXT	.DAT	SIGMLOG	.001	LTG	.ASM	CATALOG	.001
LUNAR	.AIN	CATALOG	.028	LUNAR	.ALG	CATALOG	.028
LUNAR	. COM	CATALOG	.013	LUNAR1	.BAS	CATALOG	.020
LVBMIN	.MUS	CATALOG	.039	LVBMIN	.NOT	CATALOG	.039
M81	. COM	CATALOG	.004	M81	. COM	CATALOG	.036
MAC4	.ASM	CATALOG		MAC40	.LIB	CATALOG	.024
MAC6	.AZM	CATALOG	.036	MAC6	. COM	CATALOG	.036
		_	-	-		_	

Mamo	DICE		NAME		DICK	
NAME	DISK		NAME		DISK	
MAC6 .DOC	CATALOG	.036	MACASM	.COM	CATALOG	.016
MACRO .LIB	CATALOG	.024	MACRO	.LIB	CATALOG	.038
MACROS .LIB	SIGMLOG	.004	MAILLIST	.DOC	CATALOG	.006
MAILLIST.DOC	CATALOG		MAINSB	.FOR	SIGMLOG	.002
MAINT .BAS	CATALOG		MAINT	.BAS	CATALOG	.028
MAKEFCB .LIB	CATALOG		MANDALA	.ASC	CATALOG	.021
MANPARTS.BAS	CATALOG		MAPLE	.MUS	CATALOG	.039
MARINE .MUS	CATALOG		MAST	· CAT	CATALOG	.040
MASTERMD.ASC	CATALOG		MATH	.ASM	CATALOG	
MATH .DOC	CATALOG		MAZE	.ASC	CATALOG	
MAZE .ASC	CATALOG		MAZE	.ASM	CATALOG	.001
MAZE .COM	CATALOG		MAZE	.FOR	CATALOG	.004
MBMBOT .ASC	CATALOG		MBOOT3	.ASM	SIGMLOG	.008
MDGCBIOS.ASM	CATALOG		MDGSBOOT		CATALOG	.015
MDIR8/17.ASM	CATALOG		MDIR8/17		SIGMLOG	.009
MDIR8/17.COM	CATALOG		MEGATREK		CATALOG	.027
MEGATREK.DOC	CATALOG		MEM-MAP		SIGMLOG	.007
MEMBRAIN.ASC	CATALOG		MEMDIAG		SIGMLOG	.005
MEMDIAG .DOC	SIGMLOG		MEMTST	.ASM	CATALOG	.001
MENU .ASM	SIGMLOG		MFACCESS		CATALOG	.036
MFT45 .ASM	SIGMLOG		MIC-XFER		SIGMLOG	.007
MIC-XFER.ASM	SIGMLOG		MIC-XFER	-	SIGMLOG	.007
MIC-XFER.DOC	SIGMLOG		MICROPAT		CATALOG	.038
MIKEBIOS.ASM	SIGMLOG		MILMON80		CATALOG	.018
MINOL .ASM	CATALOG		MINWALZ	.MUS	CATALOG	.039
ML .SUB	CATALOG		ML80	.DOC	CATALOG	.036
ML80 .REF	CATALOG		MLCOPY	.SUB	CATALOG	.004
MLIST3 .ASM	CATALOG		MLIST34	.ASM	SIGMLOG	.007
MNEMONIC.ASM	CATALOG		MODEM	.ASM	CATALOG	.006
MODEM .ASM	CATALOG		MODEM	.DOC	CATALOG	.025
MODEM .LIB	CATALOG		MODEM 4	.ASM	CATALOG	.040
MODEM4 .DOC	CATALOG	- A 1400 CES 10	MODEM5A	.ASM	SIGMLOG	.008
MODEM7 .ASM	CATALOG		MODEM7	. COM	CATALOG	.047
MODEM7 .DOC	CATALOG	.047	MODEM7	.SET	CATALOG	.047
MODEM926.ASM	SIGMLOG	.007	MON1	.MAC	CATALOG	.029
MON2 .MAC	CATALOG		MOONLOC		CATALOG	
MOONLOC1.BAS	CATALOG		MOONLOC2		CATALOG	
MOONLOC3.BAS	CATALOG		MOONLOC5		CATALOG	
MORSE .ASM	CATALOG		MOVDOWN		CATALOG	
MOVE .ASM	CATALOG		MOVE	.ASM	CATALOG	.029
MOVE2 .SAM	CATALOG		MOVE6/12		SIGMLOG	
MOVENMAC.ASM	CATALOG		MPY8	.LIB	CATALOG	
MRIVER .MUS	CATALOG		MULT	.SAM	CATALOG	
MUSIC .ASM	CATALOG		MUSIC	. COM	CATALOG	
MUSIC .DOC	CATALOG		MUSIC4	.ASM	CATALOG	
MUSIC4 .COM	CATALOG		MUSIC4	.DOC	CATALOG	.039
MUSICP .COM	CATALOG		MUSPAT	.DOC	CATALOG	.039
MUSPAT .HEX	CATALOG		MUSTANG	.FAS	CATALOG	
MUSTANG& . FEX	CATALOG		MYLIFE	.MUS	CATALOG	
MYMAC .LIB	CATALOG		N-ELT1	.ASC	CATALOG	
N-ELT1 .BAS	CATALOG		N-ELT1	.DOC	CATALOG	
NAMES .DAT	CATALOG		NBIOS	.ASM	CATALOG	
NCOMPARE.LIB	CATALOG		NEWBAUD	.ASM	SIGMLOG	

NAME	8	DISK		NAME		DISK	
NEWFRAC2	2.BAS	CATALOG	.037	NEWS	.SAM	CATALOG	.034
NFL	BAS	CATALOG		NFMAP	.ASM	SIGMLOG	.009
NIM	.ASC	CATALOG		NIM1	.H19	SIGMLOG	.010
NLIST	.ASM	SIGMLOG		NOTATE	.ASM	CATALOG	.029
NOTES	BAS	CATALOG		NOTES	.INT	CATALOG	.039
NOTES	.VAN	CATALOG		NSBOOT	.ASM	CATALOG	.040
NSCBIOS	.ASM	CATALOG		NSCPM48	.ASM	SIGMLOG	.010
NSCPM48	.DOC	SIGMLOG		NUMBER	.ASM	CATALOG	.035
NUMBER	.MAC	CATALOG		NUMS	.ASM	CATALOG	.017
OBJECT	.ASM	CATALOG		OBJNULL	.ASM	CATALOG	.035
ONEND2	.AIN	CATALOG		ONEND2	.ALG	CATALOG	.028
OPCODE	LIB	CATALOG		OPT	.BAS	CATALOG	
OTHELLO	BAS	CATALOG		OTHELLO	.COM	CATALOG	.015
OTHELLO		CATALOG		OTHELLO	.DOC	CATALOG	
OTHELLO		CATALOG		OTHELLO	.FOR	CATALOG	
OTHELLO	.H19	SIGMLOG		OUTNUM1	.LIB	CATALOG	.008
P/R	.SUB	CATALOG		P/R000	.BAS	CATALOG	
P/R010	.BAS	CATALOG		P/R020	.BAS	CATALOG	
P/R030	BAS	CATALOG		P/R040	.BAS	CATALOG	.045
P/R050	.BAS	CATALOG		P/R06A	.BAS	CATALOG	
P/R06B	.BAS	CATALOG		P/R070	.BAS	CATALOG	.045
P/R080	.BAS	CATALOG		P/R090	.BAS	CATALOG	.045
P/R100	.BAS	CATALOG		P/R110	.BAS	CATALOG	.045
P/R120	.BAS	CATALOG		P/R130	.BAS	CATALOG	.045
P/R140	.BAS	CATALOG		P/R150	BAS	CATALOG	.045
P/R160	BAS	CATALOG		P/R170	BAS	CATALOG	.045
P/R180	.BAS	CATALOG		P/R190	BAS	CATALOG	.045
P/R200	.BAS	CATALOG		P/R210	BAS	CATALOG	.045
P/R220	.BAS	CATALOG	.045	P/R230	BAS	CATALOG	.045
P/R240	.BAS	CATALOG	.045	P/R250	.BAS	CATALOG	.045
P/R260	.BAS	CATALOG	.045	P/R270	BAS	CATALOG	.045
P/R280	.BAS	CATALOG	.045	P/R290	.BAS	CATALOG	.045
P/R291	.BAS	CATALOG	.045	P/R300	.BAS	CATALOG	.045
P/R310	.BAS	CATALOG	.045	P/R320	.BAS	CATALOG	.045
P/R321	.BAS	CATALOG	.045	P/R330	.BAS	CATALOG	.045
P/R340	.BAS	CATALOG	.045	P1UR	.FNT	CATALOG	.034
PACKUP	. ASM	CATALOG		PAINT	.FAS	CATALOG	.035
PAINT	. FEX	CATALOG	.035	PAINT	. PRN	CATALOG	.035
PAINT&	.FEX	CATALOG	.035	PAINTER	.FEX	CATALOG	.035
PAINTER&	FEX	CATALOG	.035	PARM	.ASM	CATALOG	.035
PARTS	.BAS	CATALOG	.037	PAS2CPM	.ASM	SIGMLOG	.008
PASCAL	.ASM	SIGMLOG	.008	PASCAL	.COM	SIGMLOG	.008
PASCAL	. DOC	SIGMLOG	.008	PASSWORD	.BAS	CATALOG	.037
PASTOCPM	I.ASM	SIGMLOG	.008	PATH	.ASM	CATALOG	.035
PBOOT	.ASM	CATALOG	.040	PBOOT	.ASM	SIGMLOG	.008
PBURN	.ASM	CATALOG		PEN-CPM	.ASM	CATALOG	.036
PEN-CPM		CATALOG	.036	PEN-CPM	.DOC	CATALOG	.036
PERCENT	.BAS	CATALOG		PERCENT	.INT	CATALOG	.037
PERM	.ALG	CATALOG		PG0EQU	.ASM	SIGMLOG	.004
PGEN	. ASM	CATALOG		PGEN	.ASM	SIGMLOG	.008
PGEN	. COM	SIGMLOG		PIC	.MUS	CATALOG	.039
PILOT	•	CATALOG		PILOT	.ASM	CATALOG	.007
PILOT	.ASM	CATALOG	.012	PILOT	. COM	CATALOG	.012

NAME	DISK		NAME		DISK	
PILOT .DOC	CATALOG	-012	PILOT	.LST	CATALOG	
PILOT .OBJ	CATALOG	007	PILOT	.TST	CATALOG	.012
	SIGMLOG	.007	PINUP	.PIC	CATALOG	.020
	CATALOG	020	PIRANHA		CATALOG	.029
PINUPL .PIC	CATALOG		PLINK925	.ASM	SIGMLOG	.007
PLINK823.ASM	SIGMLOG	000	PLOT	.ASM	CATALOG	.034
PLNK1018.ASM	CATALOG	.000	PLOT2	.BAS	CATALOG	.003
PLOT .DOC	CATALOG	040	PMMIBYE5		CATALOG	.046
PMMIBYE3.ASM	CATALOG	046	PMON	.ASM	CATALOG	.012
PMMIBYE5.DOC	CATALOG		POKER	BAS	CATALOG	.020
POET .BAS	CATALOG		POSIT	.ASM	CATALOG	
PONG .ASM	CATALOG		POW	.ASM	CATALOG	
POSTFILE.BAS	CATALOG		POWTEXT	.POW	CATALOG	
POWCMDS . POW	CATALOG		PREFMT	BAS	CATALOG	
PRACTICE.ASM	CATALOG		PRICES	.DOC	CATALOG	
PRELUDE .MUS			PRINT	.SAM	CATALOG	
PRINT .ASM	CATALOG		PRINT3	. ASM	CATALOG	
PRINT2 .ASM	CATALOG		PROC1	.ASM	CATALOG	
PRNT .ASM	CATALOG		PROC3	.ASM	CATALOG	
PROC2 .ASM	CATALOG			.ASM	CATALOG	
PROC4 .ASM	CATALOG		PROC5	.ASM	CATALOG	
PROC6 .ASM	CATALOG		PROC7 PROCCALC		CATALOG	
PROC8 .ASM	CATALOG			.ASM	CATALOG	
PROCSELF.ASM	CATALOG		PROM PTSRCNVT		CATALOG	
PTSRCNVT.ASM	CATALOG		PISRCNVI		CATALOG	
PTSRCNVT.COM	CATALOG			.MUS	CATALOG	
PTSRCNVT.DOC	CATALOG			.MUS	SIGMLOG	
PUR2MIN .NOT	CATALOG	.039	PURGE		CATALOG	
PURGE .ASM	CATALOG	.006	PUT	. ASM	CATALOG	
PUTF .ASM	CATALOG		PUTW	.ASM	CATALOG	.006
QCAT .ASM	CATALOG	.025	QUICKIE	.BAS		
QUOTES .PRN	CATALOG	.042	RADIX	.ASC	CATALOG CATALOG	
RANDTEXT.BAS	CATALOG	.041	RATFOR	.COM		.008
RBBS22 .ASC	SIGMLOG	.008	RBBS22	.DOC	SIGMLOG	
RBSUTL22.ASC	SIGMLOG	800.	READ	.ME	CATALOG CATALOG	.032
READ .ME	SIGMLOG	.008	READ-ME	.DOC		350 (500) 500 (000)
READCUST.BAS	CATALOG		READINV	.BAS	CATALOG	.043
README .DOC	CATALOG	.021	README	.FMI	CATALOG	.003
READVEND.BAS	CATALOG	.043	READWORD		CATALOG	.028
RECOVERY.ASC	CATALOG	.005	RECSEC	.LIB	CATALOG	.008
REL .ASM	CATALOG	.038	REL	.UTL	CATALOG	.038
REL1 .ASM	CATALOG		REL256	. COM	CATALOG	.014
REL512 .COM	CATALOG		REL768	. COM	CATALOG	.014
RELCPM .DOC	CATALOG		RELCPM	.SUB	CATALOG	.038
RELDUMP .ASM	SIGMLOG		RELED	.SUB	CATALOG	.038
RELHDR .ASM	CATALOG	2-1 10000000 000	RELHOW	.DOC	CATALOG	.014
RELOC .ASM	CATALOG		REMOV"	.ASM	CATALOG	.039
REMOV" .COM	CATALOG		REPORT	.BAS	CATALOG	.006
REPORT .BAS	CATALOG		RESCALE	.ASM	CATALOG	.035
RESIZE .DOC	CATALOG		RESIZE2	.BAS	CATALOG	.041
RESIZE3 .BAS	CATALOG		RESOURCE		CATALOG	.042
RESOURCE.DOC	CATALOG		RETDL	. COM	CATALOG	.046
RETURN48.COM	SIGMLOG		REZ	.ASM	SIGMLOG	.010
REZ .COM	SIGMLOG	.010	REZ	.DOC	SIGMLOG	.010

NAME	DISK		NAME	DISK
REZ .Z80	SIGMLOG	.010	RFILE .INP	CATALOG .028
RIBBS .ASC	SIGMLOG	.007	RJCASP .BAS	CATALOG .033
RM80 .ASM	CATALOG	.019	RM80 .DOC	CATALOG .019
RND .FOR	CATALOG	.004	ROBIN .ASM	CATALOG .029
ROBO .BAS	CATALOG		ROBO .DOC	
ROBO .INT	CATALOG		ROBOT .ASM	
ROCKET .ASC	CATALOG		ROCKET .BAS	
ROLLING .MUS	CATALOG		ROMP .ASM	
ROTATE .ASM	CATALOG		ROULETTE.ASC	
RSPEED .ASM	CATALOG		RSPEED .COM	
RTE .ASM	CATALOG		RTEXT .DAT	
RTMASM .COM	CATALOG		RTMASM .DOC	
RTTY .ASM	CATALOG		RUN .COM	
RUN .COM	CATALOG		RUN .PLM	
RUN2-2 .COM	CATALOG		RUN2-3 .COM	
RUNALG .COM	CATALOG		RUNERR .TXT	
RUNK2-0 .COM	CATALOG		RUSSIAN .ASC	
RUSSIAN .BAS	CATALOG		RWINT .ALG	
s .DOC	CATALOG		S/TREK .BAS	
SAP .ASM	CATALOG		SAP .ASM	
SAP-FIX .DOC	SIGMLOG		SAPD .COM	
SAR .DOC	CATALOG		SARABAND.MUS	
SAVEBACK.COM	CATALOG		SAVEOB .COM	
SBOOT24 .ASM	CATALOG		SCOPY .ASM	
SCRAMBLE.ASM	CATALOG		SCRAMBLE.DOC	
SD-12/15.ASM	SIGMLOG		SECTEST .BAS	
SECTEST .DOC	CATALOG		SECTOR .ASM	
SEDIT .ASM	CATALOG		SEDY .ASM	
SEDY .COM	CATALOG		SEEK .ASM	
SELECTS .LIB	CATALOG		SEQIO .LIB	
SERCHGME.BAS	CATALOG		SHOP .ASC	
SHOWGRP .ASC	SIGMLOG	.009	SHOWSWAP.ASM	
SIG/M .LIB	SIGMLOG	.004	SIG/M .LIB	SIGMLOG .005
SIG/M .LIB	SIGMLOG	.007	SIG/M .LIB	SIGMLOG .008
SIG/M .LIB	SIGMLOG	.009	SIG/M .LIB	SIGMLOG .010
SIG/M .LIB	SIGMLOG	.011	SIISTR .ALG	CATALOG .028
SINCOS .OBJ	CATALOG	.035	SIZE .ASM	CATALOG .006
SIZE .SAM	CATALOG	.034	SIZLST .SAM	CATALOG .034
SKEW2PAT.ASM	CATALOG	.038	SKEW3PAT.ASM	CATALOG .038
SLED .SAM	CATALOG	.034	SLOAD .ASM	CATALOG .006
SLOT .ASC	CATALOG	.005	SMALL .MUS	
SMAN .PRN	CATALOG		SNOOPY .ASC	
SNOOPY .ASC	CATALOG		SNOOPY .PIC	
SOLOS .ASM	CATALOG		SORT .ALG	
SORT .ASC	CATALOG	.005	SORT .ASM	CATALOG .006
SORTGL .ASC	CATALOG		SPACE .ASM	CATALOG .001
SPACE .ASM	CATALOG	.017	SPASCAL .DOC	CATALOG .040
SPAT .ASM	CATALOG	.001	SPAT1 .ASM	CATALOG .016
SPEED .COM	CATALOG		SPIN .ASM	
SPREAD .MUS	CATALOG		SQUARE .ASC	
SSPLIB .FOR	CATALOG		STARS .BAS	
START .ASM	CATALOG		START .COM	
STARTREK.ASC	CATALOG	.005	STARTREK.ASC	CATALOG .027

	NAME	DISK		NAME		DISK	
	CM15m5m 516	a.m	000	CM 3 DMD DW	D. B. C.	03 m3 x 0 0	000
	STARTREK.BAS	CATALOG	.003	STARTREK		CATALOG	
	STARTREK.DOC	CATALOG	.002	STARTREK		CATALOG	.002
	STARTREK.TBI	CATALOG	.011	STARTREK		CATALOG	.022
	STARWAR2.H19	SIGMLOG	.010	STARWARS		CATALOG	.039
	STATPCH .ASM	CATALOG	.025	STEXT	.DAT	SIGMLOG	.001
	STMASTER.BAS	CATALOG	.020	STMASTER	.DOC	CATALOG	.020
	STOIC .COM	CATALOG	.025	STOIC	.DOC	CATALOG	.023
	STOICBAS.STC	CATALOG	.023	STOICCPM		CATALOG	.023
	STOICD/A.STC	CATALOG	.023	STOICEDT	.STC	CATALOG	.023
	STOICFFT.STC	CATALOG	.023	STOICFLE		CATALOG	.023
	STOICFLT.STC	CATALOG	.023	STOICINT	.STC	CATALOG	.023
	STOICITP.STC	CATALOG	.023	STOICMIS	.STC	CATALOG	.023
	STOICSIN.STC	CATALOG	.023	STOICSRT	.STC	CATALOG	.023
	STORY .BAS	CATALOG	.003	STRIKE9	.BAS	CATALOG	.003
	STRING .ALG	CATALOG	.028	STRTRK/1	.BAS	CATALOG	.020
	STRTRK/2.ASC	CATALOG		STRTRK/2		CATALOG	.022
	STRTRK/3.ASC	CATALOG		STRTST	.ALG	CATALOG	.028
	SUBS1 .BAS	CATALOG		SUBS1	.BAS	CATALOG	.044
	SUPTRK3 .ASC	CATALOG	.005	SURVEY	. COM	SIGMLOG	.004
	SURVEY3 .ASM	CATALOG	.046	SURVEY3	.ASM	SIGMLOG	.004
	SURVEY3 .COM	CATALOG	.046	SWARMS	.ASC	CATALOG	.026
	SWARMS .BAS	CATALOG	.013	SWARMS2	.ASC	CATALOG	.013
٠.	SYMPRT .ASM	CATALOG	.008	SYMSTACK		CATALOG	.029
	SYNONYMS.ASC	CATALOG	.003	T	.ASM	CATALOG	.042
				_			.035
		CATALOG	.042	TABLE	.ASM	CATALOG	
	TACOS .ASC	CATALOG	.021	TAG	.ASM	SIGMLOG	.007
	TAPELIB .COM	CATALOG	.024	TAPELIB	.DOC	CATALOG	.024
	TAPELIB .MAC	CATALOG	.024	TARBELL	.DOC	CATALOG	.025
	TARGET .ASM	CATALOG	.015	TARGET	.ASM	CATALOG	.029
	TASMIO .DOC	CATALOG	.016	TASMIO	. HEX	CATALOG	.016
	TASMIO .MAC	CATALOG	.016	TAXMAN	.ASC	CATALOG	.021
	TBASIC .1	CATALOG	.031	TBASIC	.10	CATALOG	.031
	TBASIC .11	CATALOG	.031	TBASIC	.12	CATALOG	.031
	TBASIC .13	CATALOG	.031	TBASIC	.14	CATALOG	.031
	TBASIC .15	CATALOG	.031	TBASIC	. 2	CATALOG	.031
	TBASIC .3	CATALOG	.031	TBASIC	. 4	CATALOG	.031
	TBASIC .5	CATALOG	.031	TBASIC	.6	CATALOG	.031
	TBASIC .7	CATALOG	.031	TBASIC	. 8	CATALOG	.031
	TBASIC .9	CATALOG	.031	TBASIC	. A	CATALOG	.031
	TBASIC .AD	CATALOG	.031	TBASIC	.B1	CATALOG	.031
	TBASIC .B2	CATALOG	.031	TBASIC	.C	CATALOG	.031
	TBASIC .COM	CATALOG	.031	TBASIC	.CPM	CATALOG	.031
	TBASIC .D1	CATALOG	.031	TBASIC	.D2	CATALOG	.031
	TBASIC .E	CATALOG		TBASIC	. H	CATALOG	.031
	TBASIC .I	CATALOG	.031	TBASIC	.IND	CATALOG	.031
	TBASIC .J	CATALOG	.031	TBASIC	.K	CATALOG	.031
	TBASIC .TOC	CATALOG	.031	TBASICAL		CATALOG	.032
	TBASICA2.ASM	CATALOG	.032	TBASICA3		CATALOG	.032
	TBASICA4.ASM	CATALOG	.032	TBASICAS		CATALOG	.031
	TBASICA6.ASM	CATALOG	.031	TBASICAS		CATALOG	.032
	TCGWOZ .TXT	CATALOG				CATALOG	.032
	TED .COM	CATALOG	.044	TEACH	.ASM	CATALOG	.036
	TERMTEST.ASM	SIGMLOG	.036	TED	.DOC		.008
	TRUITEDI • MON	PTGNTOG	.009	TEST	.ASM	SIGMLOG	.000

NAME	DISK	NAME	DISK
mnom HTT	CATALOG .	010 TESTIA	ASM CATALOG .016
TEST .FIL	CATALOG .	· = 1 1 1	
TEST2 .ASM	CATALOG .		ASM CATALOG .042
THREED .SAM	CATALOG .		
TIME .BAS	CATALOG .		
TIMESQ .ASM	CATALOG .		
TINIDISK.ASM	CATALOG .	T	
TINIDISK.DOC	CATALOG .		
TINYBAS .COM	CATALOG .		ASM CATALOG .006
TISQ .ASM	CATALOG .		ASM CATALOG .006
TLOAD .ASM	CATALOG .		PRN CATALOG .036
TOP .AZM	CATALOG .		ASM SIGMLOG .007
TOP .TOP	CATALOG .	·	COM CATALOG .035
TRACE .ASM	CATALOG .		ASM CATALOG .001
TRADE .ASC	CATALOG .		ASC CATALOG .021
TRAN .SRC	CATALOG .		DAT SIGMLOG .001
TRAP .BAS	CATALOG .		ASM CATALOG .019
TREAD .ASM	CATALOG .		
TREKINFO.DOC	CATALOG .		
TREKINST. TSAVE .ASM	CATALOG .		ASM CATALOG .015
	CATALOG .		ASM CATALOG .029
Part Control of the C	CATALOG .		ASM CATALOG .041
TTT .BAS TTYDRV .MAC	CATALOG .		ASM CATALOG .041
TTYRI .ASM	CATALOG .	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ASM CATALOG .041
TWEETY .PIC	CATALOG .		
U-G-FORM.LIB	CATALOG .		
	CATALOG .		100 miles - 100 mi
U-G-FORM.LIB U-G-FORM.LIB	CATALOG .		ASM CATALOG .025
UCAT .COM	CATALOG .		COM CATALOG .040
UCOPY .ASM	CATALOG .	-000	CATALOG .043
UNLOAD .ASM	CATALOG .	- 1	
	CATALOG .		
USERLST .ASM	STEMLOG (TXT CATALOG .028
UTL .LIB			All the control of th
VBIOS31 .ASM	CATALOG .		
VDM .DOC	CATALOG .		ASM CATALOG .040
VERIFY .SAM	CATALOG .		BAS CATALOG .033
VLISTI1 .ASM			DOC CATALOG .034
VOLUME .BAS			INT CATALOG .037
VOLUME1 .DOC		001 VOLUME11.	
VOLUME16.DOC		VOLUME17.	
VOLUME18.DOC		018 VOLUME19.	
VOLUME23.DOC		VOLUME24.	
VOLUME25.DOC		VOLUME29	
VOLUME3A.DOC		VOLUME3B.	
VOLUME4 .DOC		VOLUME5 .	
VOLUME7 .DOC		007 W/SEARCH.	
WALK .MUS			ASC CATALOG .021
WAVES .MUS			COM CATALOG .004
WDIR .M80			ASC CATALOG .026
WEIGHT .BAS			INT CATALOG .037
WFILE .OUT			MUS CATALOG .039
WHENS .LIB			ASM SIGMLOG .009

NAME		DISK		NAME		DISK	
WHOLE	.BAS	CATALOG	.037	WHOLE	.INT	CATALOG	.037
WIERD	•	CATALOG	.012	WIERD	.MUS	CATALOG	.039
WIERD	.PLT	CATALOG	.012	WINPUT	.INP	CATALOG	.028
WORD-PZL	.ASC	CATALOG	.026	WRITCUST		CATALOG	.043
WRITEINV	.BAS	CATALOG	.043	WRITEVND	.BAS	CATALOG	.043
WSYSGEN	.ASM	CATALOG	.029	WUMP	.ASC	CATALOG	.021
WUMPAS	.BAS	CATALOG	.013	WUMPUS	.BAS	CATALOG	.003
WYLECON2	LIB	CATALOG	.008	X\$UTIL	.SAM	CATALOG	.034
XD	. COM	CATALOG	.034	XD-7/4	.ASM	CATALOG	.046
XD-7/4	. COM	CATALOG	.046	XDIR	.ASM	CATALOG	.024
XDIR	. COM	CATALOG	.004	XDIR	. COM	CATALOG	.024
XDIR	. COM	CATALOG	.034	XDIR	.M80	CATALOG	.004
XDIR6/28	.ASM	SIGMLOG	.004	XFER	.ASM	CATALOG	.019
XFER5-8	.ASM	SIGMLOG	.007	XFER8-5	.ASM	SIGMLOG	.007
XM	. COM	CATALOG	.034	XMODEM32	.ASM	SIGMLOG	.007
XMODEM38	.ASM	SIGMLOG	.008	XREF	.ASM	CATALOG	.008
XREF	.ASM	CATALOG	.036	XSTAT	. COM	CATALOG	.001
XSTAT2	.ASM	CATALOG	.008	XT	.ASM	CATALOG	.042
XT	. COM	CATALOG	.042	XTRA	.ASM	CATALOG	.035
XYZZY	. COM	CATALOG	.042	YANKEE	.MUS	CATALOG	.039
Z-LCTOUC	•	CATALOG	.004	Z80-OPS	.ASM	CATALOG	.017
Z80ASM	.COM	CATALOG	.016	Z80DOC	.DOC	CATALOG	.016
Z80EXT	.LIB	SIGMLOG	.007	Z80MAIN	.ASM	CATALOG	.016
Z80OPCDS	.ASM	CATALOG	.016	Z80SUBS	.ASM	CATALOG	.016
ZAPl	.INS	SIGMLOG	.006	ZAP3	.INS	SIGMLOG	.006
ZAP5	.INS	SIGMLOG	.006	ZAPMON	. HEX	SIGMLOG	.006
ZAPMON	.MOS	SIGMLOG	.006	ZILASM	.COM	SIGMLOG	.006
ZLIST	. COM	CATALOG	.025	ZOSO	. 2	CATALOG	.013
ZOSO	.20	CATALOG	.020	ZOSO	. 22	CATALOG	.022
ZOSO21	.DOC	CATALOG	.021	ZOSO21	.TOP	CATALOG	.021
ZOSO26	.DOC	CATALOG	.026	ZOSO27	.DOC	CATALOG	.027
ZPILOT	.COM	CATALOG	.012	ZPILOT	.Z80	CATALOG	.012
ZX65	. COM	SIGMLOG	.006	ZX65R	.PRN	SIGMLOG	.006
ZX65R	.ZSM	SIGMLOG	.006	ZXART	.DOC	SIGMLOG	.006
ZXHINTS	.DOC	SIGMLOG	.006	ZXLDR	.PRN	SIGMLOG	.006
ZXLDR	.ZSM	SIGMLOG	.006	ZXTABl	.DOC	SIGMLOG	.006
ZXTAB2	.DOC	SIGMLOG	.006	ZXTAB3	.DOC	SIGMLOG	.006
ZXTAB4	.DOC	SIGMLOG	.006				
			3				

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ALG files.

ARRAY CASETWO LUNAR	28-c 28-c 28-c	FLYTEST ONEND2	28-c 28-c 28-c	GOTOTEST PERM	28-c	CASETEST HANOI READWORD	28-c 28-c
RWINT	28-c	SIISTR	28-c	SORT	28-c	STRING	28-c
STRTST	28-c						

ASC files.

15/PUZ ANTONYMS BASEBALL BIOCAL BLACKJCK BUDGET CHESS COPCON DECISION DRAGRACE FOOTBALL GALAXY2 GL3 GL7 HANGMN-1	13-c 27-c 26-c 26-c 26-c 26-c 9-c 5-c 27-c 26-c 9-c 27-c 27-c	1500 APOLLO BIGTREK BIORYME BLKFRI 2 CHASE CIVILWAR COPRAN DIAMONDS EDTEXT FORMAT GETPUT GL 4 GLMENU HANGMN-2	13-c 21-c 22-c 13-c 5-c 21-c 26-c 9-c 21-c 5-c 9-c 9-c 9-c 9-c	21 BACCRRT BIO BIORYTH BLKFRI3 CHASE CLIMATES CRAPS DISSAMBR ENTE FURS GL1 GL5 GOLF HANGMN-3	5-c 26-c 21-c 5-c 21-c 26-c 26-c 26-c 21-c 21-c 9-c 9-c 27-c	ACYDUCY BANNER BIO-FF BIRTHDAY BLKJK CHESS CLOUD-9 CRAZY-8 DOTS ENTEP GALAXY GL2 GL6 GREEKRTS HIDESEEK	21-c 21-c 5-c 26-c 21-c 26-c 26-c 21-c 26-c 9-c 9-c 27-c
HORSE LISTGRPS MAZE N-ELT1 RBBS22 ROCKET SHOWGRP SORT STARTREK SUPTRK3 TACOS TREKMOD WORD-PZL	21-c 9-s 27-c 33-c 8-s 21-c 9-s 5-c 27-c 5-c 21-c 22-c 26-c	IQUEEN MANDALA MBMBOT NIM RBSUTL22 ROULETTE SLOT SORTGL STRTRK/2 SWARMS TAXMAN W/SEARCH WUMP	27-c 21-c 36-c 27-c 8-s 27-c 5-c 9-c 21-c 21-c 21-c 21-c	KING MASTERMD MEGATREK PURGE RECOVERY RUSSIAN SNOOPY SQUARE STRTRK/2 SWARMS2 TRADE WARI	21-c 27-c 27-c 7-s 5-c 21-c 21-c 26-c 22-c 13-c 21-c 21-c	LANDER MAZE MEMBRAIN RADIX RIBBS SHOP SNOOPY STARTREK STRTRK/3 SYNONYMS TRAP WEATHER	21-c 21-c 27-c 5-c 7-s 27-c 5-c 21-c 21-c 21-c

ASM files.

3712DIAG	5-s	3740UTIL	4-s	3812DIAG	5-s	3DTICTAC	17-c
88-MODEM	25-c	ADE	19-c	ALLOC	15-c	ALLOC	29-c
ALS8CPM	10-s	ASSIGN	1-c	AUTOX	9-s	BANNER	8-c
BASIC/5	11-c	BCD-DRVR	14-c	BDOS-PAT	4-s	BEASTIE	15-c
BIDI	42-c	BINLOAD1	8-c	BLOAD	6-c	BMAP7/11	4-8
BMAP7/11	47-c	BOOT	8-s	BOOT	25-c	BOOTER	40-c
BPNF	8-c	BSPAT16B	8-c	BVBOOT	38-c	BVIOS	38-c
BYTEMOV	8-c	CASDSK	1-c	CASUAL	18-c	CAT	25-c
CBIOS24	25-c	CCOS1	6-c	CCPPATCH	4-s	CHANGE	4-s
CHASE	15-c	CHASE	29-c	CHAT13	8-s	CKSUM	6-c
CLEAR	35-c	CLKROM	42-c	COMBINE	36-c	COMPARE	6-c
COMPARE	40-c	COPY	1-c	COPY	19-c	COPY	25-c

							100 100
COPYDSK	16-c	COPYFAST	47-c	COPYX	1-c	CPM-FDOS	46-c
CPM-PEN	36-c	CPMUTIL	16-c	CPUDIAG	5-s	CPYFIL15	9-s
	9-s	CRCK3	4-s	CRCK3	46-c	CREATE	35-c
CRCK10/6						-	
CROROS	17-c	CUTTER	6-c	CV	40-c	CYBER	47-c
DCHAYES	25-c	DCHBYE55	7-s	DCHBYE57	8-s	DCHDIAG	25-c
DDTPATCH	8-c	DEFLECT	29-c	DENVBAS	17-c	DFOCO	38-c
		DIABLO	1-c	DIAL6/23	47-c	DIRFIX	4-s
DI	40-c						
DIRS10/1	4-s	DIRS1015	9-s	DIRS9/8	47-c	DIS	42-c
DISASSM1	1-c	DISASSM2	1-c	DISKDUP	8-c	DISKTES1	8-c
DISKTEST	1-c	DISPLAY	17-c	DISPLAYP	9-s	DISPONOF	35-c
DISTPLUS	35-c	DIV16B	10-s	DLDHI	14-c	DLOAD	14-c
DMSPATCH	38-c	DOODLE	35-c	DSCUSPAT	38-c	DSKCAS	1-c
DSKDIR	8-c	DSKRD	35-c	DU	40-c	DU-10/26	9-s
DU-8/12	4-s	DU-8/12	46-c	DU-V61	46-c	DUMP	15-c
DUMP	24-c	DUPUSR2	4-s	ED3	1-c	EDIT	29-c
		EJECT	40-c	EXAM	1-c	EXECPLUS	35-c
EDUCATOR							
EXECSAFE	35-c	EXTF	34-c	FAST	38-c	FBIOS24	25-c
FBOOT24	25-c	FCBMOV	35-c	FCBNEW	35-c	FDOS-CPM	46-c
FELIX	35-c	FILPRINT	4-s	FIND	36-c	FIND3/18	9-s
FINDBD37	4-s	FINDBD38	9-s	FLIP-8/8	7-s	FLIP3	47-c
		FMAP	8-c	FMAP6/12	4-s	FOCAL	16-c
FLTARITH	18-c						
FORMAT	25-c	FORMAT1	8-c	FPCONV	18-c	FUNCTION	17-c
GETF	35-c	GETW	35-c	GO	8-c	HEXDUMP	40-c
HEXOUT	35-c	HYS13	1-c	HYS15	1-c	ICOPY	1-c
IDIR	1-c	IDUMP	6-c	INIT ,	15-c	INIT2	15-c
							42-c
KERNEL	23-c	KERNL	15-c	LETTER	25-c	LIFE8	
LINK	19-c	LINK73	19-c	LIOS	1-c	LIST32	14-c
LLLBASIC	2-c	LLLBASIC	10-c	LLLFP	2-c	LLLFP	10-c
LLLMON	2-c	LLLMON	10-c	LOADPROG	35-c	LTG	1-c
MAC4	8-c	MATH	18-c	MAZE	1-c	MBOOT3	8-s
MDGCBIOS	15-c	MDGSBOOT	15-c	MDIR8/17	9-s	MDIR8/17	46-c
MEM-MAP	7-s	MEMDIAG	5-s	MEMTST	1-c	MENU	7-s
MFT45	9-s	MIC-XFER	7-s	MIC-XFER	9-s	MICROPAT	38-c
MIKEBIOS	9-s	MILMON80	18-c	MINOL	17-c	MLIST3	46-c
MLIST34	7-s	MNEMONIC	42-c	MODEM	6-c	MODEM	25-c
MODEM 4	40-c	MODEM5A	8-s	MODEM7	47-c	MODEM926	7-s
MORSE	41-c	MOVDOWN	16-c	MOVE	14-c	MOVE	29-c
MOVE6/12	7-s	MOVENMAC	29-c	MUSIC	29-c	MUSIC4	39-c
NBIOS	42-c	NEWBAUD	8-s	NFMAP	9-s	NLIST	9-s
NOTATE	29-c				40-c	NSCPM48	10-s
		NSBOOT	40-c	NSCBIOS			
NUMBER	35-c	NUMS	17-c	OBJECT	35-c	OBJNULL	35-c
PACKUP	38-c	PARM	35-c	PAS2CPM	8-s	PASCAL	8-s
PASTOCPM	8-s	PATH	35-c	PBOOT	8-s	PBOOT	40-c
PBURN	8-c	PEN-CPM	36-c	PG0EQU	4-s	PGEN	8-s
PGEN	40-c	PILOT	7-c	PILOT	12-c	PINIT	8-s
PIRANHA	29-c	PLINK823	46-c	PLINK925	7-s	PLNK1018	8-s
PLOT	34-c	PMMIBYE3	40-c	PMMIBYE5	46-c	PMON	12-c
PONG	41-c	POSIT	35-c	POW	36-c	PRACTICE	41-c
PRINT	1-c	PRINT2	8-c	PRINT3	15-c	PRNT	1-c
PROC1	15-c			PROC3	15-c	PROC4	15-c
		PROC2	15-c				
PROC5	15-c	PROC6	15-c	PROC7	15-c	PROC8	15-c
PROCCALC	17-c	PROCSELF	18-c	PROM	47-c	PTSRCNVT	42-c
PURGE	6-c	PUT	14-c	PUTF	35-c	PUTW	35-c
QCAT	25-c	REL	38-c	RELl	14-c	RELDUMP	7-s
RELHDR	38-c			REMOV	39-c	RESCALE	35-c
		RELOC	1-c				
REZ	10-s	RM80	19-c	ROBIN	29-c	ROBOT	29-c
ROMP	15-c	ROTATE	35-c	RSPEED	38-c	RTE	1-c

RTTY SCOPY SEDIT SIZE SOLOS SPAT STATPCH T TARGET TBASICA 4 TEACH TEST2 TINIDISK TMAP TREAD TSAVE TTYR1 UNLOAD VBIOS31 WHICH XDIR6/28 XMODEM32	41-c 19-c 1-c 6-c 15-c 1-c 25-c 42-c 29-c 31-c 41-c 16-c 11-c 6-c 11-c 29-c 41-c 29-c	SAP SCRAMBLE SEDY SKEW2PAT SORT SPAT1 SURVEY3 TABLE TBASICA1 TBASICA5 TERMTEST TEXCLEAN TISQ TPA3 TREAD TTT TTYX USER-8/8 VBOOT31 WSYSGEN XFER XMODEM38	19-c 36-c 14-c 38-c 6-c 16-c 4-s 35-c 31-c 9-s 7-s 6-c 7-s 19-c 29-c 19-c 8-s	SAP SD-12/15 SEEK SKEW3PAT SPACE SPIN SURVEY3 TAG TBASICA6 TEST TIME TLOAD TRACE TSAVE TTY UCAT USERLST VDMSAVE XD-7/4 XFER5-8 XREF	29-c 9-s 16-c 38-c 1-c 35-c 46-c 31-c 31-c 31-c 31-c 31-c 42-c 35-c 42-c 41-c 41-c 41-c 46-c 41-c 46-c 46-c 41-c 46	SBOOT24 SECTOR SHOWSWAP SLOAD SPACE START SYMPRT TARGET TBASICA3 TBASICIO TESTIA TIMESQ TLOAD TRAIN TSAVE TTYR UCOPY V2FORMAT VLISTII XDIR XFER8-5 XREF	25-c 9-s 35-c 17-c 42-c 15-c 15-c 15-c 41-c 47-s 24-c 36-c
		XMODEM38	8-s	The second secon	8-c	XREF	36-c
XSTAT2 Z80MAIN	8-c 16-c	XT Z80OPCDS	42-c 16-c	XTRA Z80SUBS	35-c 16-c	Z80-OPS	17-c

BAS files.

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23MATCH	13-c	A/P-INFO	43-c	A/P000	43-c	A/P010	43-c
A/P02A	43-c	A/P02B	43-c	A/P030	43-c	A/P040	43-c
A/P050	43-c	A/P060	43-c	A/P070	43-c	A/P080	43-c
A/P090	43-c	A/P110	43-c	A/P120	43-c	A/R-INFO	43-c
A/R-INV	43-c	A/R010	43-c	A/R020	43-c	A/RO3A	43-c
A/R03B	43-c	A/R040	43-c	A/R050	43-c	A/R060	43-c
A/R070	43-c	A/R080	43-c	A/RTAX	43-c	ACCTFILE	44-c
ACE	3-c	ADDPOD	33-c	AMAZE	3-c	ANIMAL	3-c
ANNTOT1	44-c	AREA	37-c	AWAVE	39-c	BAGELS	3-c
BAGELS	13-c	BAGELS2	3-c	BIGTREK	22-c	BINSEARC	43-c
BINSERCH	44-c	BIOPRINT	3-c	BITCASP	33-c	BLACKBOX	10-s
BLACKJAC	13-c	BLACKJAC	20-c	BLKFRI	3-c	BLKFRI2	3-c
BMAINT	41-c	BOGGLE	10-s	BREPORT	41-c	BUDGET1	44-c
BUDGETCH	44-c	BULLSEYE	13-c	CAESAR	33-c	CANNONS	3-c
CAPSERCH	33-c	CASPGAME	33-c	CASPPLUS	33-c	CHAIN	26-c
CHAIN	37-c	CHASE	3-c	CHECKERS	13-c	CHIEF	13-c
CHOMP	3-c	CIVILW	20-c	CODE	41-c	COMBINE	3-c
CONVERT	13-c	CORE	3-c	CORETEST	3-c	CPMLABEL	46-c
CPUPARTS	37-c	CRAPS	3-c	CRAPS	37-c	CRTFM	43-c
CRTFM	44-c	CURSOR	43-c	CURSOR	44-c	DBENTRY	28-c
DBQUERY	28-c	DBSETUP	28-c	DEC1	37-c	DEC2	37-c
DEC3	37-c	DEC4	37-c	DEC5	37-c	DEC6	37-c
DECIMAL	37-c	DFELT	33-c	DICE	13-c	DISTANCE	37-c
ELTPOD	33-c	EUCLID	3-c	FIB	3-c	FILEINIT	43-c
FILEINIT	44-c	FIT	3-c	FOOTBALL	20-c	FORMAT	3-c
FORMULA	37-c	FRAC1	37-c	FRAC2	37-c	FRAC3	37-c
FRAC4	37-c	FRACTION	37-c	G/L-INFO	43-c	G/L-INFO	44-c
G/L000	44-c	G/L010	44-c	G/L020	44-c	G/L030	44-c

G/L040 GAMMONB GRADE HELLO KENO LANES LOAN MAINT MOONLOC3 NFL P/R000 P/R040 P/R070 P/R110 P/R150 P/R190 P/R230 P/R230 P/R270 P/R300 P/R330 PERCENT POSTFILE READCUST REPORT ROBO SECTEST STARTREK STRTRK/1 TIME	44-c 10-s 37-c 3-c 3-c 3-c 3-c 41-c 45-c	G/L050 GENINFO GUNNER INTEGER KINGDOM LANES LOVE MANPARTS MOONLOC5 NOTES P/R010 P/R050 P/R080 P/R120 P/R200 P/R240 P/R240 P/R240 P/R240 P/R240 P/R240 P/R240 P/R250 P/R310	44-c 43-c 20-c 37-c 13-c 10-c 37-c 41-c 45-c 45-c 45-c 45-c 45-c 45-c 45-c 45	G/L070 GENINFO HANG JOURNAL LABELS LEDGER1 LUNAR1 MOONLOC1 N-ELT1 OPT P/R020 P/R06A P/R090 P/R130 P/R170 P/R210 P/R250 P/R250 P/R250 P/R250 P/R250 P/R250 P/R250 P/R250 P/R320 PARTS POET QUICKIE READVEND RESIZE3 RUSSIAN STARS STORY SUBS1 TRAP WEIGHT	44-c 44-c 3-s 10-s 41-c 44-c 33-c 41-c 41-c 41-c 45-c 45-c 45-c 45-c 45-c 45-c 45-c 45	G/L080 GOLF HEADER JRNL LANDER LEM MAINT MOONLOC2 NEWFRAC2 OTHELLO P/R030 P/R06B P/R100 P/R140 P/R180 P/R220 P/R220 P/R221 PASSWORD P/R221 PASSWORD POKER RANDTEXT REPORT RJCASP S/TREK STARTREK STRIKE9 SWARMS TTT WHOLE	44-cc 37-cc 37-cc 41
170 100 100 100 100 100 100 100 100 100							
TIME		TIMESET	42-c	TRAP	13-c		3-c
VISPOD	33-c	VOLUME	37-c	WEIGHT	37-c	WHOLE	37-c
WRITCUST	43-c	WRITEINV	43-c	WRITEVND	43-c	WUMPAS	13-c
WUMPUS	3-c						

COM files.

AA	40-c	ACT31	4-c	ACT31UC	4-c	AD	l-s
ADINIT	2-s	ADV	3-s	ADV	ll-s	ALGOLM	28-c
ALLOC	40-c	ASMX	16-c	BAS2-0	5-c	BAS2-1	5-c
BASIC	30-c	BASIC/5	11-c	CALENDAR	4-c	CAT	25-c
CAT	40-c	CAT2	40-c	CHESS	41-c	CK-FIX	40-c
CLEANUP	40-c	COMBINE	36-c	COMPARE	40-c	COPY	1-c
COPY	34-c	COPYFAST	47-c	CPM-PEN	36-c	CPMSETL	34-c
CRCK3	46-c	CT82	42-c	CV	40-c	D	40-c
DFOCO	38-c	DI	40-c	DISASM	17-c	DISPLAY	9-s
DOODLE	35-c	DU	40-c	DUMP	14-c	DUMP	24-c
EDIT	16-c	EXEC	35-c	FASM	35-c	FAST	38-c
FELIX	35-c	FILES	1-c	FIND	36-c	FMAP	25-c
FMAP	40-c	FORMAT	24-c	IDUMP	34-c	ILRAW	34-c
KSAP	34-c	L81	4-c	L82	4-c	L82	36-c
L83	4-c	LIFE8	42-c	LINES	36-c	LINKASM	36-c
LIST	36-c	LLLBASIC	2-c	LLLBASIC	10-c	LOADBACK	35-c
LOADOB	35-c	LOADPROG	35-c	LUNAR	13-c	M81	4-c
M81	36-c	MAC6	36-c	MACASM	16-c	MAZE	4-c
MDIR8/17	46-c	MODEM7	47-c	MUSIC	39-c	MUSIC4	39-c
MUSICP	29-c	OTHELLO	15-c	OTHELLO	26-c	PASCAL	8-s

PEN-CPM PTSRCNVT REL768 RETURN48 RUN RUNALG SAVEOB STOIC TAPELIB TINYBAS WDIR XDIR XT ZLIST	36-c 46-c 14-c 10-s 27-c 28-c 35-c 25-c 24-c 4-c 24-c 42-c 25-c	PGEN RATFOR REMOV" REZ RUN RUNK2-0 SEDY SURVEY TBASIC TRACE XD XDIR XYZZY ZPILOT	8-s 24-c 39-c 10-s 30-c 5-c 14-c 4-s 31-c 35-c 34-c 42-c 12-c	PILOT REL256 RESOURCE RSPEED RUN2-2 SAPD SPEED SURVEY3 TED UCAT XD-7/4 XM Z80ASM ZX65	12-c 14-c 42-c 38-c 5-c 35-c 38-c 46-c 36-c 25-c 46-c 34-c 16-c 6-s	PTSRCNVT REL512 RETDL RTMASM RUN2-3 SAVEBACK START T TINIDISK UCAT XDIR XSTAT ZILASM	42-c 14-c 46-c 32-c 5-c 35-c 42-c 11-c 40-c 1-c 6-s
DOC	files.						
ACT BKSPACE BOOTER CK-FIX CRAPS DFOCO DISPLAY EDIT FASTNSTL FLOATPNT G/L INFO2 INTRUPT LIFE8 LLLBASIC MAC6 MEGATREK ML80 MOONLOC N-ELT1 PEN-CPM PRICES READ-ME RESIZE ROBO	40-c 4-c 25-c 8-s 40-c 37-c 38-c 23-c 23-c 24-c 24-c 34-c 27-c 36-c 31	3740UTIL ALLOC BONUS BUDGET1 CPM CV DIAL6/23 DLOAD EDVDM FELIX FMAP HAMPROGS INFO3 KERNEL LINES LLLBASIC MAILLIST MEMDIAG MODEM MUSIC NSCPM48 PILOT PTSRCNVT README RESOURCE RTMASM	21-c 42-c 32-c	3X12DIAG ASSEMBL BOOK CATALOG CPMLABEL D DICT DU EXPLAIN FILES FRAGMENT HOW2BS INFO4 LEDGER1 LINKASM LOAD MAILLIST MIC-XFER MODEM 4 MUSIC 4 OTHELLO PLOT PTSRCNVT RELCPM REZ S	38-c 10-s 34-c	88-MODEM BASIC/5 BOOT CHESS CPUDIAG DATABASE DIS DU/MAP EXTF FIND FRIEND INFO1 INFO5 LETTER LIST LOAD MATH MIC-XFER MODEM7 MUSPAT PASCAL PMMIBYE5 RBBS22 RELHOW RM80 SAP-FIX	25-cccccccccccccccccccccccccccccccccccc
SAR STARTREK TAPELIB	33-c 2-c 24-c	SCRAMBLE STMASTER TARBELL	20-c 25-c	SECTEST STOIC TASMIO	14-c 23-c 16-c	SPASCAL STOICCPM TED	40-c 23-c 36-c
TINIDISK VOLSAM VOLUME17 VOLUME24	11-c 34-c 17-c 24-c	TINYBAS VOLUME1 VOLUME18 VOLUME25	2-c 1-c 18-c 25-c	TREKINFO VOLUME11 VOLUME19 VOLUME29	22-c 11-c 19-c 29-c	VDM VOLUME16 VOLUME23 VOLUME3A	29-c 16-c 23-c 3-c
VOLUME3B Z80DOC	3-c 16-c	VOLUME4 ZOSO21	4-c 21-c	VOLUMES VOLUMES ZOSO26	5-c 26-c	VOLUME7 ZOSO27	7-c 27-c

6-s

6-s

ZXHINTS

ZXTAB4

ZXTAB1

6-s

ZXTAB2

6-s

ZXART

ZXTAB3

6-s

6-s

FOR files.

TUR	IIIes.						
ADVENSUB CALENDAR MAINSB RND	2-s 4-c 2-s 4-c	ADVENT CHESS MAZE SSPLIB	2-s 41-c 4-c 41-c	ADVINIT3 EDITM OTHELLO	2-s 26-c 15-c	ADVMAIN INSUB OTHELLO	2-s 2-s 26-c
INT	files.						
ANNTOT1 BUDGET1 CRTFM DEC4 DISTANCE FRAC2 G/L000 G/L040 INTEGER PERCENT WHOLE	44-c 44-c 37-c 37-c 37-c 44-c 44-c 37-c 37-c 37-c	AREA BUDGETCH DEC1 DEC5 FILEINIT FRAC3 G/L010 G/L050 JRNL ROBO	37-c 44-c 37-c 37-c 44-c 37-c 44-c 37-c 44-c	AWAVE CHAIN DEC2 DEC6 FORMULA FRAC4 G/L020 G/L070 LEDGER1 VOLUME	39-c 37-c 37-c 37-c 37-c 44-c 44-c 44-c 37-c	BLUFF CRAPS DEC3 DECIMAL FRAC1 FRACTION G/L030 G/L080 NOTES WEIGHT	27-c 37-c 37-c 37-c 37-c 44-c 44-c 39-c 37-c
1.							
LIB fi]	lec						
		A 189					
BIOSGO DOWHILES INNUM1 MACROS MPY8 OUTNUM1 SIG/M SIG/M U-G-FORM U-G-FORM WYLECON2	8-c 29-c 8-c 4-s 8-c 8-c 4-s 9-s 34-c 41-c 8-c	CONCOD DSIM MAC 40 MAKEFCB MYMAC RECSEC SIG/M SIG/M U-G-FORM U-G-FORM Z 80 EXT	6-s 10-s 24-c 8-c 25-c 8-c 5-s 10-s 37-c 46-c 7-s	DISKIN EQUATES MACRO MFACCESS NCOMPARE SELECTS SIG/M SIG/M U-G-FORM UTL	8-c 4-s 24-c 36-c 29-c 7-s 11-s 38-c 38-c	DIVIDE1 GETVEC MACRO MODEM OPCODE SEQIO SIG/M SYMSTACK U-G-FORM WHENS	8-c 1-c 38-c 47-c 24-c 29-c 8-s 29-c 39-c 29-c
MAC	files.						
COPYDSK MON2 TTYDRV	16-c 29-c 25-c	DUMP NUMBER	14-c 4-c	IGADD TAPELIB	29-c 24-c	MON1 TASMIO	29-c 16-c
MUS	files.						
2PRTFJSB ARIA CALIOPE ENTER LVBMIN MRIVER	39-c 39-c 39-c 39-c 39-c 39-c	AIR BOOGIE CHOPS HUSTLE MAPLE MYLIFE	39-c 39-c 39-c 39-c 39-c 39-c	ALLEGRO BOUREE CHORALE IRISH MARINE PIC	39-c 39-c 39-c 39-c 39-c 39-c	AMERICA BREEZ DAISY LAWRENCE MINWALZ PRELUDE	39-c 39-c 39-c 39-c 39-c

CPI	MUG-SIG/M	selected	catalog.		Page 7	7	r fa
PUR2MIN SPREAD WAVES	39-c 39-c 39-c	ROLLING STARWARS WHATI	39-c 39-c 39-c	SARABAND TINSOLD WIERD	39-c 39-c 39-c	SMALL WALK YANKEE	39-c 39-c 39-c
	•						
PIC	files.						
LINUS TWEETY	20-c 20-c	PINUP	20-c	PINUPl	20-с	SNOOPY	20-c
PLM	files.						
BASIC RUN	30-c 30-c	BASPAR	30-c	BASSYN	30-c	BUILD	30-c
S A M	files.						
DEMO	34-c	DIRFIX	34-c	G	34-c	ноон	34-c
INFO MULT SIZLST X\$UTIL	34-c 34-c 34-c 34-c	LABEL NEWS SLED	34-c 34-c 34-c	LOOP PRINT THREED	34-c 34-c 34-c	MOVE2 SIZE VERIFY	34-c 34-c 34-c
SRC	files.						
FPCONV TRAN	29-c 29-c	FPDATA	29-c	FPINT	29-c	FPPKG	29-c
gm _C	files.						
STOICBAS		STOICD/A	23-0	STOICEDT	23-c	STOICFFT	23-с
STOICFLE STOICMIS	23-c	STOICELT STOICSIN	23-c	STOICINT STOICSRT	23-c	STOICITP	
SUB	files.		7				
CBAS MLCOPY TINICOPY	44-c 4-c 11-c	COMPILE P/R	37-c 45-c	FIX RELCPM	39-c 38-c	ML RELED	4-c 38-c
z 80	files.						

ZPILOT

10-s

12-c

CT82

42-c

REZ